

## Pantheon Report

Generated at 2019-09-19 09:47:27 (UTC).

Data path: GCE Iowa on *ens4 (remote)* → GCE London on *ens4 (local)*.

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

### System info:

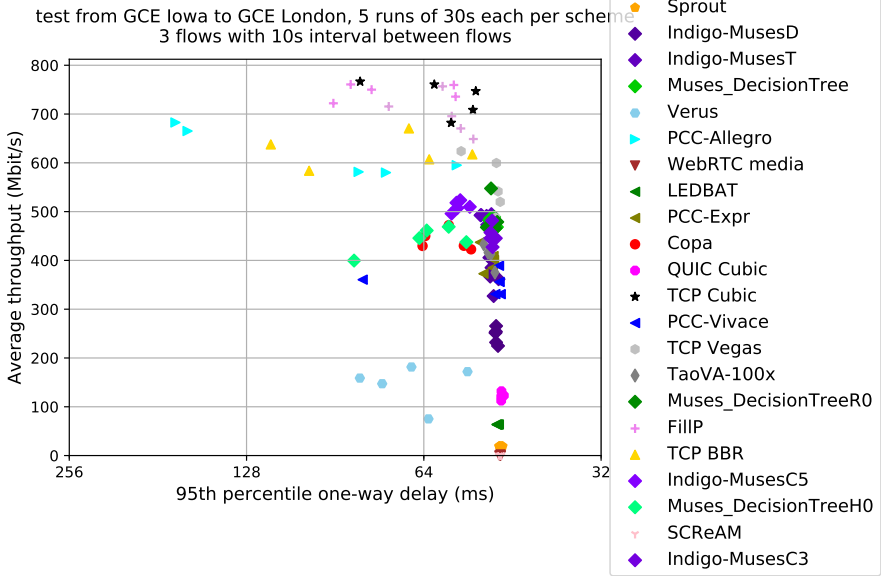
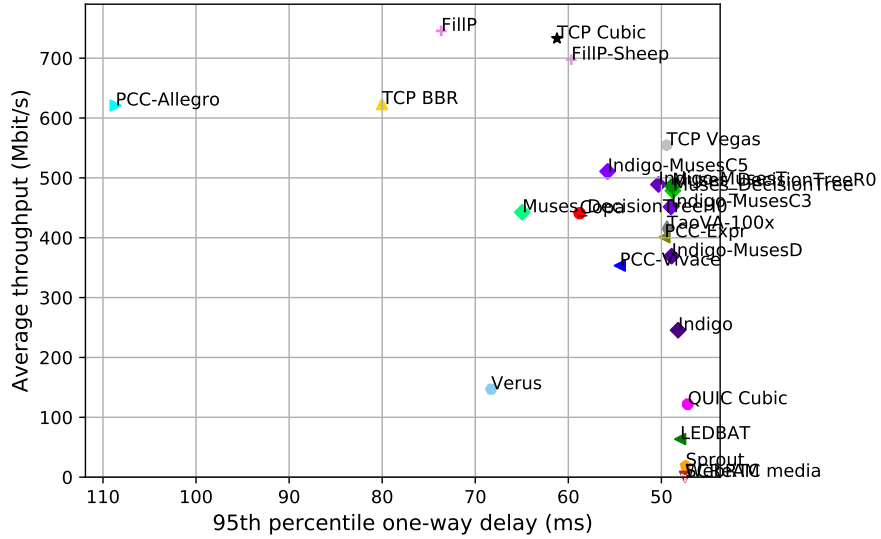
```
Linux 4.15.0-1040-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
```

```
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from GCE Iowa to GCE London, 5 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	318.86	303.51	310.76	59.46	60.41	90.59	0.36	0.47	1.00
Copa	5	238.37	212.06	186.61	58.94	63.71	50.86	0.22	0.44	0.85
TCP Cubic	5	391.61	364.16	299.86	53.52	78.15	54.46	0.29	0.38	1.03
FillP	5	457.22	312.10	246.32	81.53	49.95	49.17	0.30	0.39	0.99
FillP-Sheep	5	425.61	296.62	227.00	63.81	50.09	48.77	0.20	0.37	0.93
Indigo	5	125.82	123.74	112.98	48.00	48.37	48.26	0.28	0.44	1.08
Indigo-MusesC3	5	292.06	211.85	110.37	49.36	48.22	47.85	0.22	0.42	2.38
Indigo-MusesC5	5	339.47	241.62	77.37	58.24	50.91	47.55	0.21	0.46	1.66
Indigo-MusesD	5	258.73	139.19	96.51	49.37	47.64	47.38	0.10	0.37	1.71
Indigo-MusesT	5	318.87	235.91	91.25	51.23	48.11	47.37	0.23	0.47	1.61
LEDBAT	5	40.92	27.38	13.56	48.05	47.87	47.56	0.63	0.95	1.92
Muses_DecisionTree	5	298.22	214.81	123.23	49.58	47.67	47.45	0.14	0.34	1.37
Muses_DecisionTreeH0	5	259.71	203.36	155.31	68.79	50.82	48.56	0.18	0.41	1.04
Muses_DecisionTreeR0	5	316.08	189.89	145.71	49.45	47.49	47.74	0.16	0.40	1.22
PCC-Allegro	5	350.58	288.13	242.05	115.79	54.65	48.06	1.96	0.68	1.17
PCC-Expr	5	227.11	182.52	160.39	50.32	51.75	48.40	0.31	0.47	1.18
QUIC Cubic	5	66.79	59.03	46.20	46.66	47.05	47.03	0.35	0.54	1.02
SCReAM	5	0.22	0.22	0.22	47.13	47.41	47.42	0.26	0.57	1.09
Sprout	5	9.66	9.59	9.19	47.13	47.26	47.27	0.32	0.51	0.96
TaoVA-100x	5	220.31	200.63	186.63	48.82	49.26	51.39	0.26	0.46	0.96
TCP Vegas	5	268.13	295.65	271.87	47.80	49.41	68.30	0.26	0.47	1.01
Verus	5	56.25	103.91	69.08	62.26	72.02	53.59	0.00	0.79	1.21
PCC-Vivace	5	205.54	174.48	97.97	47.86	87.90	94.64	0.24	0.49	1.23
WebRTC media	5	0.48	0.05	0.05	47.43	47.37	47.32	0.10	0.00	0.00



Run 1: Statistics of TCP BBR

Start at: 2019-09-19 04:08:56

End at: 2019-09-19 04:09:26

Local clock offset: -0.521 ms

Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2019-09-19 07:36:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 670.58 Mbit/s

95th percentile per-packet one-way delay: 67.846 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 354.86 Mbit/s

95th percentile per-packet one-way delay: 52.766 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 323.05 Mbit/s

95th percentile per-packet one-way delay: 82.459 ms

Loss rate: 0.53%

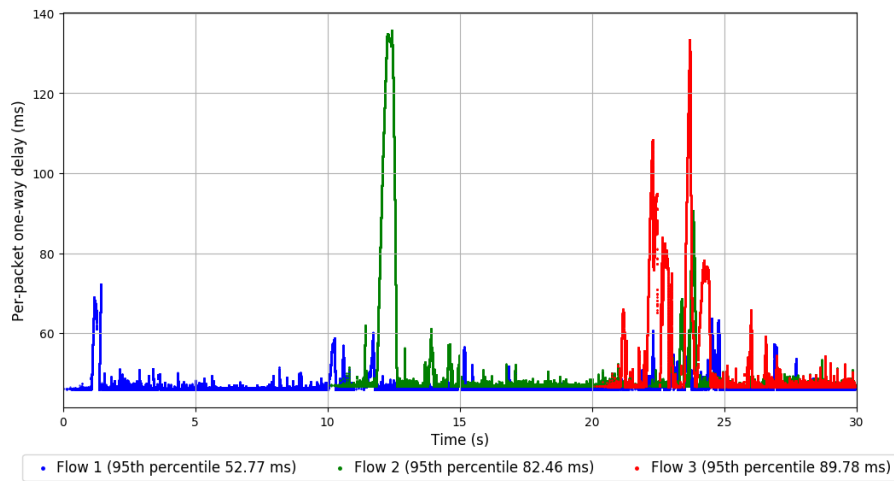
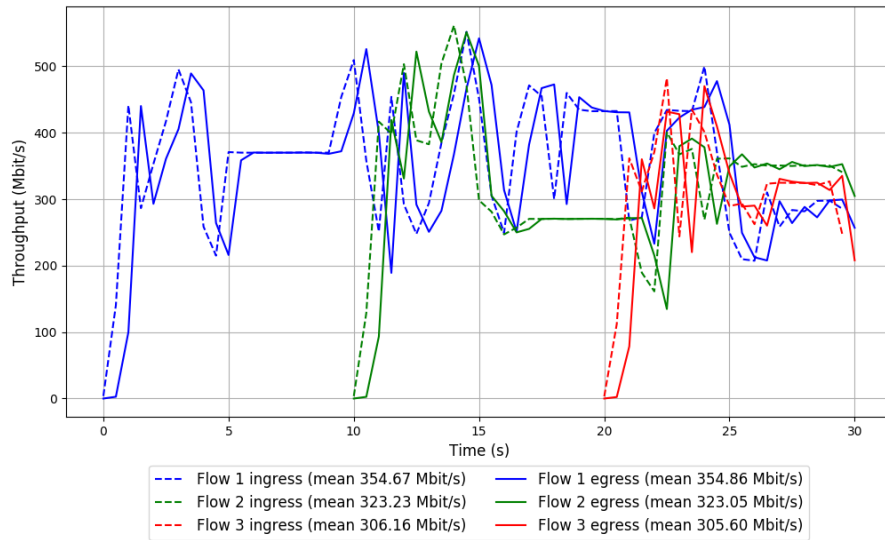
-- Flow 3:

Average throughput: 305.60 Mbit/s

95th percentile per-packet one-way delay: 89.779 ms

Loss rate: 1.14%

### Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-09-19 04:46:19

End at: 2019-09-19 04:46:49

Local clock offset: -0.166 ms

Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2019-09-19 07:36:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 583.77 Mbit/s

95th percentile per-packet one-way delay: 100.217 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 295.28 Mbit/s

95th percentile per-packet one-way delay: 68.686 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 268.14 Mbit/s

95th percentile per-packet one-way delay: 51.416 ms

Loss rate: 0.57%

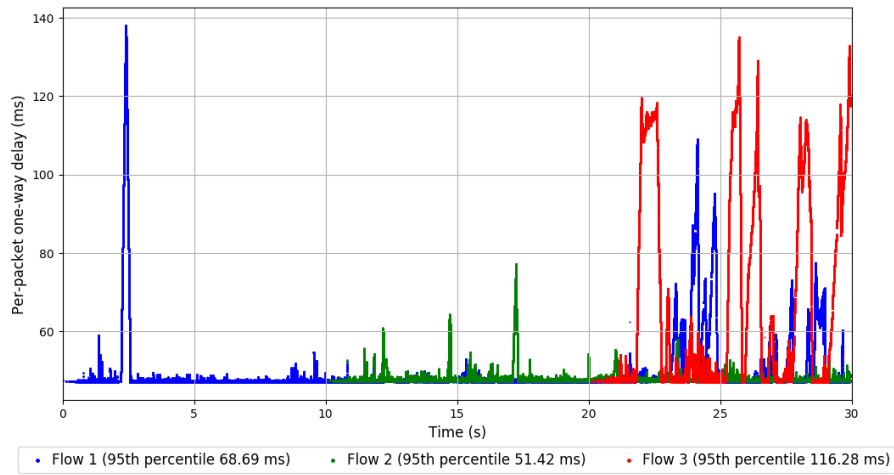
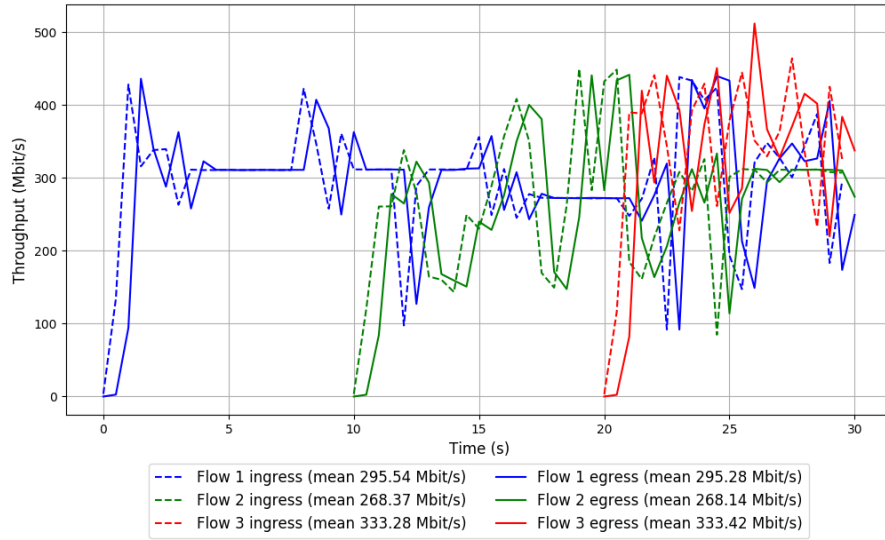
-- Flow 3:

Average throughput: 333.42 Mbit/s

95th percentile per-packet one-way delay: 116.275 ms

Loss rate: 0.92%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-09-19 05:24:02  
End at: 2019-09-19 05:24:32  
Local clock offset: -0.146 ms  
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-09-19 07:36:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 637.79 Mbit/s  
95th percentile per-packet one-way delay: 116.422 ms  
Loss rate: 0.54%

-- Flow 1:

Average throughput: 320.81 Mbit/s  
95th percentile per-packet one-way delay: 53.620 ms  
Loss rate: 0.36%

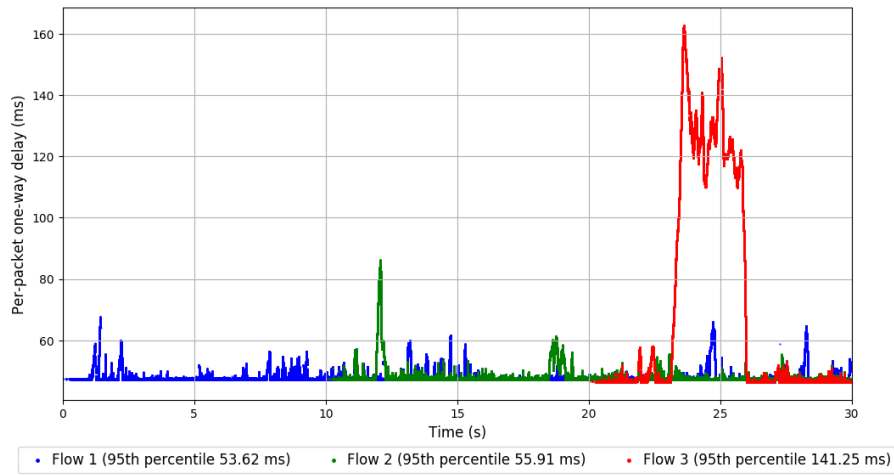
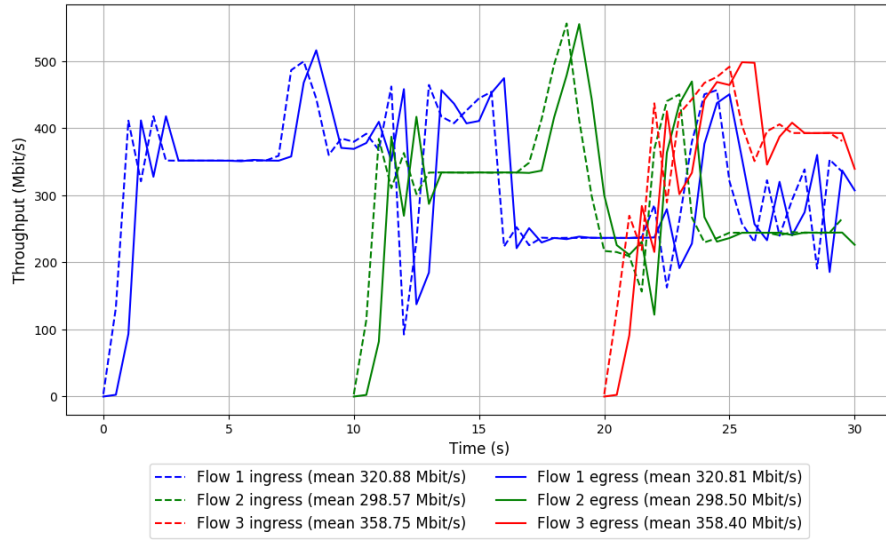
-- Flow 2:

Average throughput: 298.50 Mbit/s  
95th percentile per-packet one-way delay: 55.906 ms  
Loss rate: 0.52%

-- Flow 3:

Average throughput: 358.40 Mbit/s  
95th percentile per-packet one-way delay: 141.247 ms  
Loss rate: 1.09%

### Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-09-19 06:01:51

End at: 2019-09-19 06:02:21

Local clock offset: -0.209 ms

Remote clock offset: 0.094 ms

# Below is generated by plot.py at 2019-09-19 07:36:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 617.39 Mbit/s

95th percentile per-packet one-way delay: 52.944 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 316.88 Mbit/s

95th percentile per-packet one-way delay: 54.946 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 308.88 Mbit/s

95th percentile per-packet one-way delay: 50.816 ms

Loss rate: 0.53%

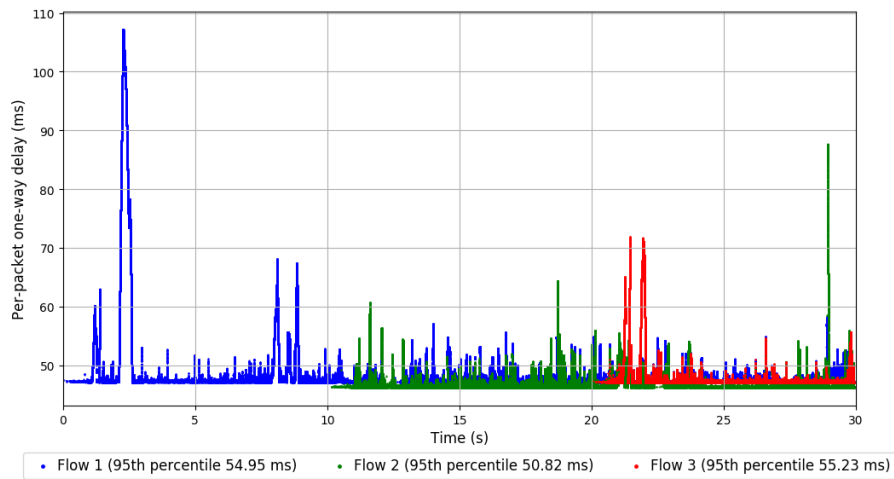
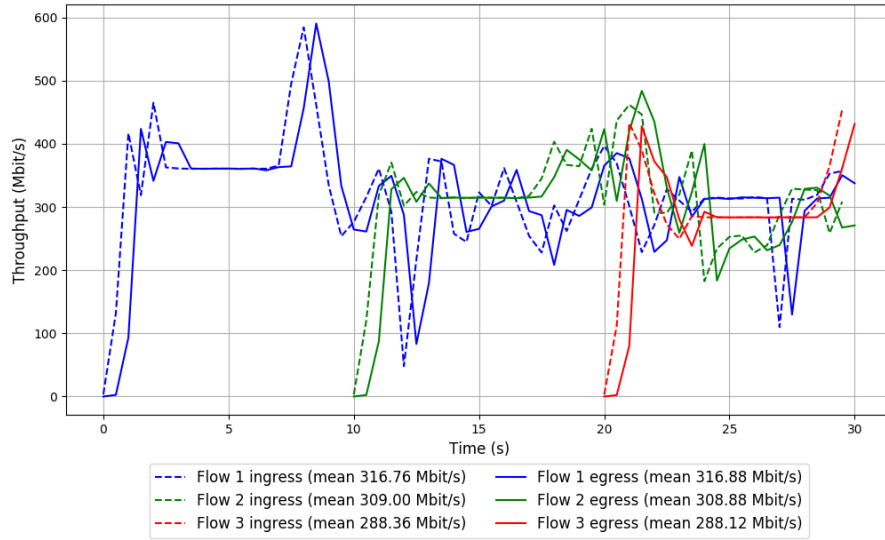
-- Flow 3:

Average throughput: 288.12 Mbit/s

95th percentile per-packet one-way delay: 55.233 ms

Loss rate: 1.04%

### Run 4: Report of TCP BBR — Data Link





Run 5: Statistics of TCP BBR

Start at: 2019-09-19 06:39:34

End at: 2019-09-19 06:40:04

Local clock offset: -0.17 ms

Remote clock offset: 0.073 ms

# Below is generated by plot.py at 2019-09-19 07:36:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 607.23 Mbit/s

95th percentile per-packet one-way delay: 62.667 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 306.49 Mbit/s

95th percentile per-packet one-way delay: 67.290 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 318.96 Mbit/s

95th percentile per-packet one-way delay: 61.456 ms

Loss rate: 0.20%

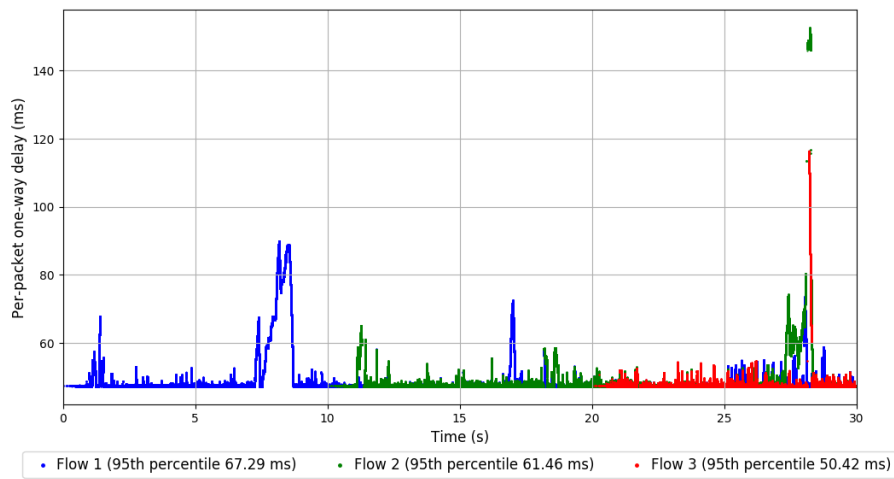
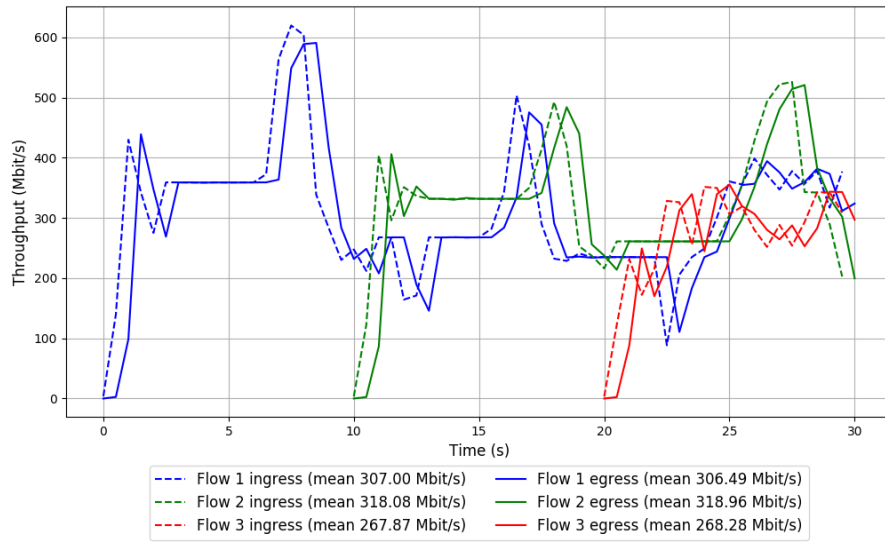
-- Flow 3:

Average throughput: 268.28 Mbit/s

95th percentile per-packet one-way delay: 50.424 ms

Loss rate: 0.82%

### Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-09-19 04:30:57  
End at: 2019-09-19 04:31:27  
Local clock offset: -0.162 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2019-09-19 07:38:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 422.71 Mbit/s  
95th percentile per-packet one-way delay: 53.206 ms  
Loss rate: 0.45%

-- Flow 1:

Average throughput: 230.26 Mbit/s  
95th percentile per-packet one-way delay: 53.530 ms  
Loss rate: 0.26%

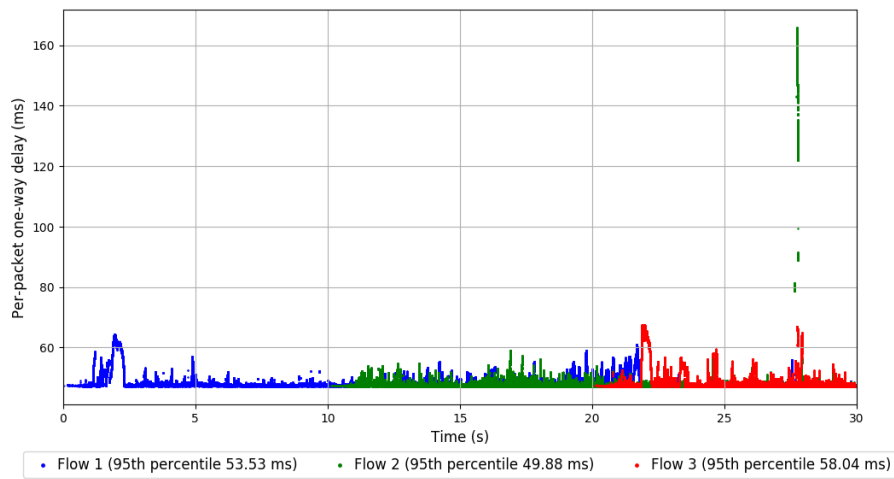
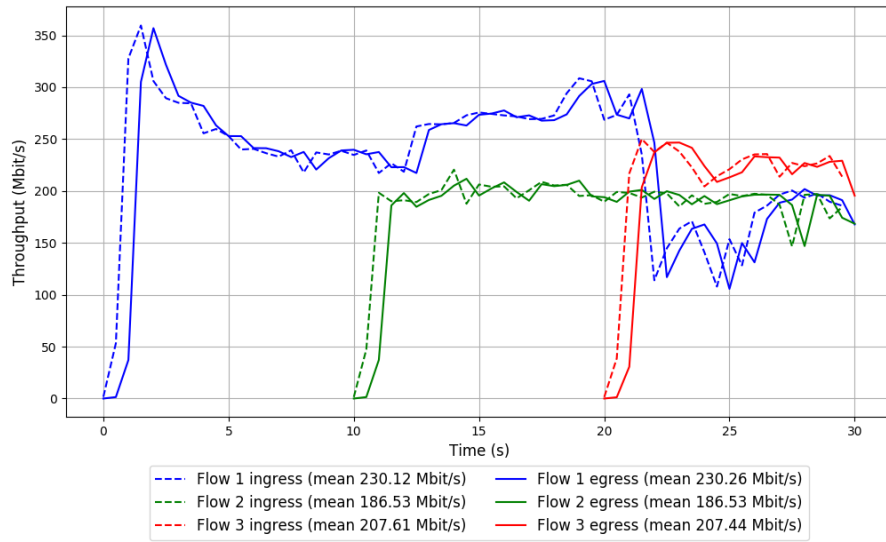
-- Flow 2:

Average throughput: 186.53 Mbit/s  
95th percentile per-packet one-way delay: 49.875 ms  
Loss rate: 0.48%

-- Flow 3:

Average throughput: 207.44 Mbit/s  
95th percentile per-packet one-way delay: 58.044 ms  
Loss rate: 1.04%

### Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-09-19 05:08:26  
End at: 2019-09-19 05:08:56  
Local clock offset: -0.149 ms  
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-09-19 07:39:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 450.00 Mbit/s  
95th percentile per-packet one-way delay: 63.643 ms  
Loss rate: 0.41%

-- Flow 1:

Average throughput: 250.11 Mbit/s  
95th percentile per-packet one-way delay: 62.529 ms  
Loss rate: 0.22%

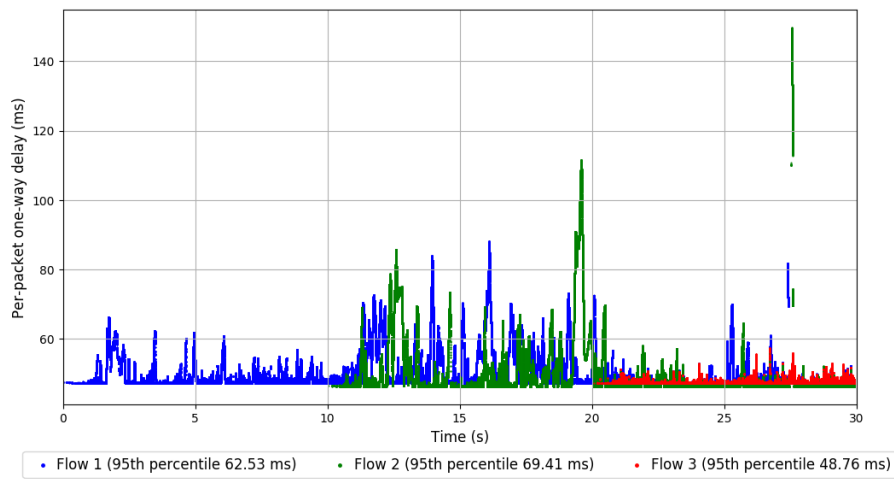
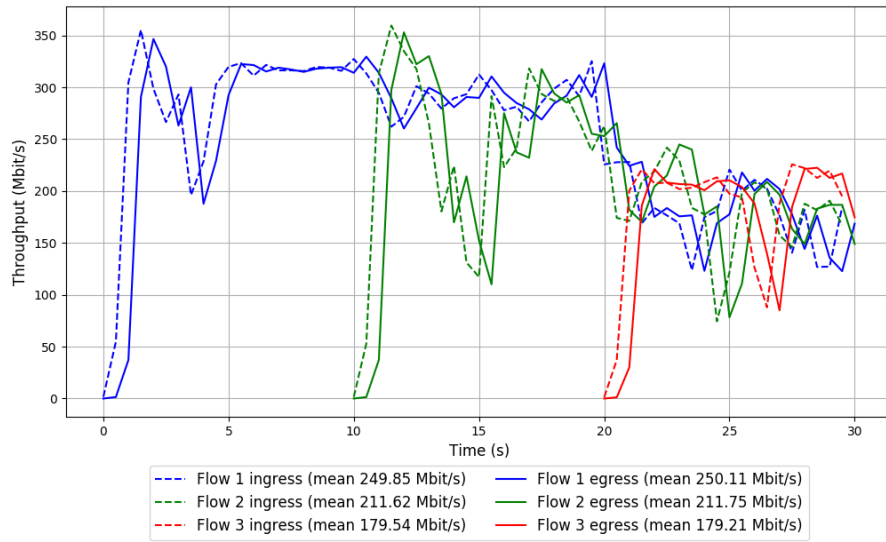
-- Flow 2:

Average throughput: 211.75 Mbit/s  
95th percentile per-packet one-way delay: 69.411 ms  
Loss rate: 0.43%

-- Flow 3:

Average throughput: 179.21 Mbit/s  
95th percentile per-packet one-way delay: 48.762 ms  
Loss rate: 1.17%

## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-09-19 05:46:20

End at: 2019-09-19 05:46:50

Local clock offset: -0.197 ms

Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2019-09-19 07:40:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 472.15 Mbit/s

95th percentile per-packet one-way delay: 58.044 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 230.11 Mbit/s

95th percentile per-packet one-way delay: 57.942 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 271.53 Mbit/s

95th percentile per-packet one-way delay: 59.498 ms

Loss rate: 0.52%

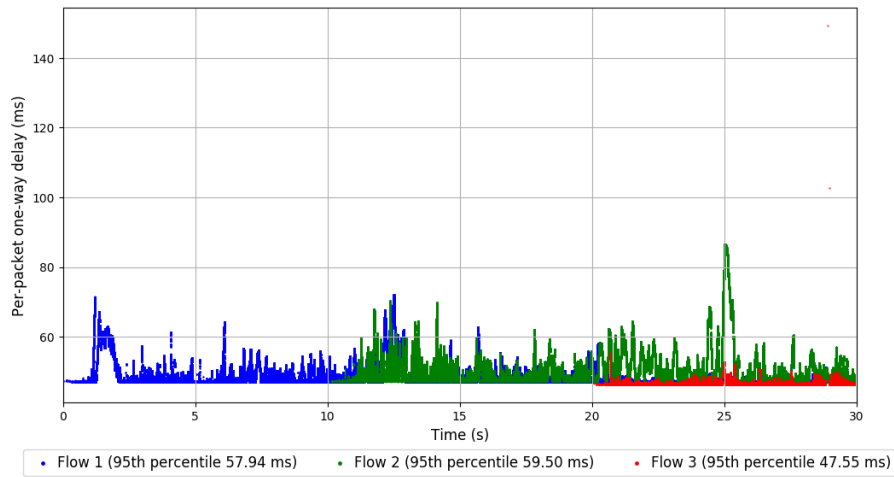
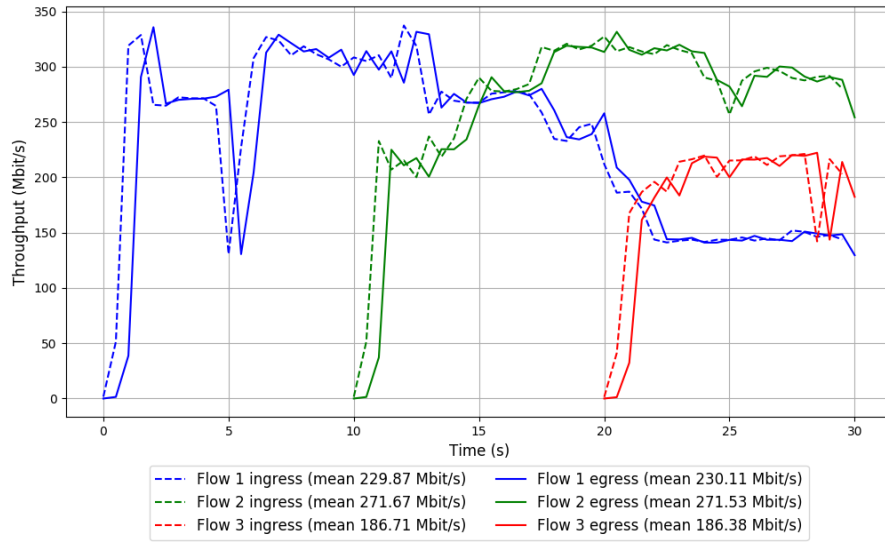
-- Flow 3:

Average throughput: 186.38 Mbit/s

95th percentile per-packet one-way delay: 47.551 ms

Loss rate: 1.12%

### Run 3: Report of Copa — Data Link





Run 4: Statistics of Copa

Start at: 2019-09-19 06:24:04

End at: 2019-09-19 06:24:34

Local clock offset: 0.188 ms

Remote clock offset: 0.074 ms

# Below is generated by plot.py at 2019-09-19 07:50:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 429.67 Mbit/s

95th percentile per-packet one-way delay: 64.320 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 243.27 Mbit/s

95th percentile per-packet one-way delay: 64.344 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 189.54 Mbit/s

95th percentile per-packet one-way delay: 86.664 ms

Loss rate: 0.41%

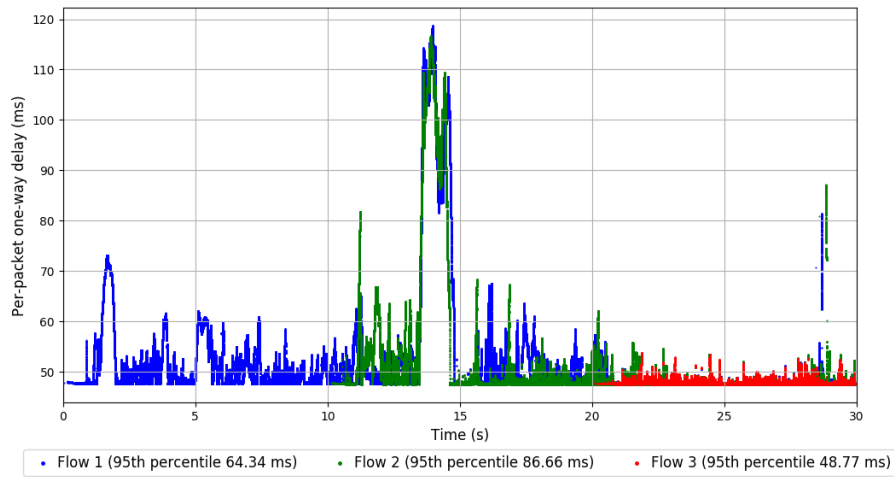
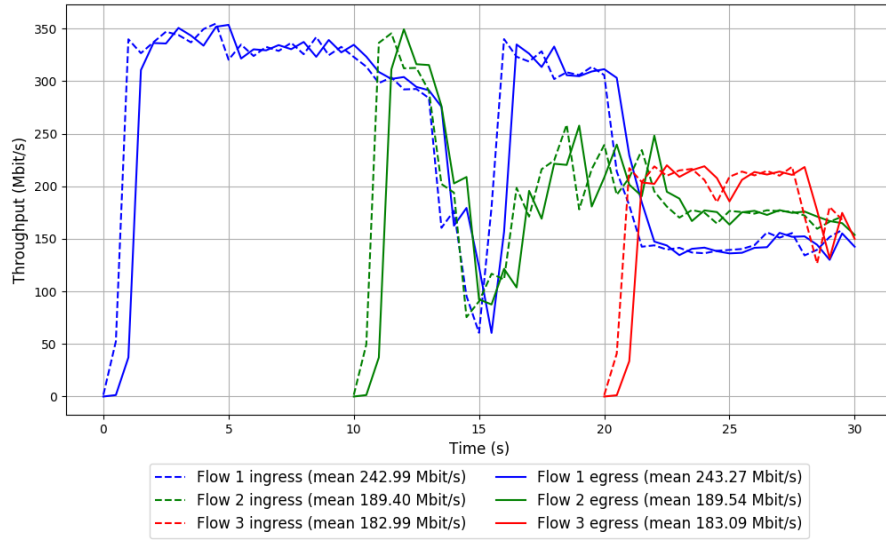
-- Flow 3:

Average throughput: 183.09 Mbit/s

95th percentile per-packet one-way delay: 48.769 ms

Loss rate: 0.91%

### Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-09-19 07:01:36

End at: 2019-09-19 07:02:06

Local clock offset: -0.528 ms

Remote clock offset: 0.023 ms

# Below is generated by plot.py at 2019-09-19 07:50:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 430.02 Mbit/s

95th percentile per-packet one-way delay: 54.727 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 238.10 Mbit/s

95th percentile per-packet one-way delay: 56.368 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 200.96 Mbit/s

95th percentile per-packet one-way delay: 53.127 ms

Loss rate: 0.35%

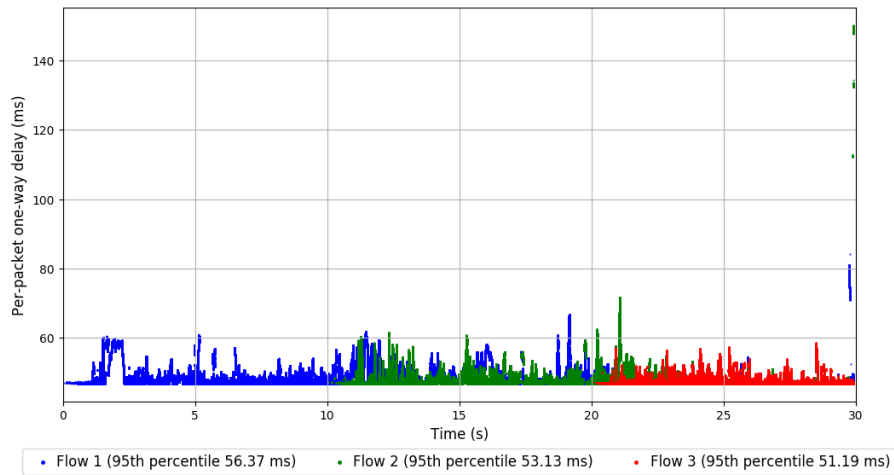
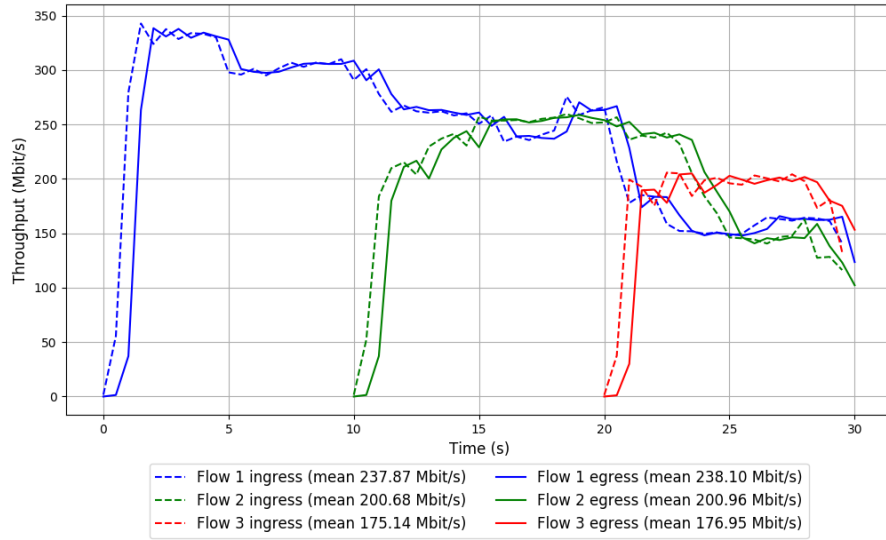
-- Flow 3:

Average throughput: 176.95 Mbit/s

95th percentile per-packet one-way delay: 51.190 ms

Loss rate: 0.00%

### Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-09-19 04:05:37  
End at: 2019-09-19 04:06:07  
Local clock offset: -0.155 ms  
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2019-09-19 07:50:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 682.05 Mbit/s  
95th percentile per-packet one-way delay: 57.522 ms  
Loss rate: 0.44%

-- Flow 1:

Average throughput: 350.59 Mbit/s  
95th percentile per-packet one-way delay: 48.423 ms  
Loss rate: 0.27%

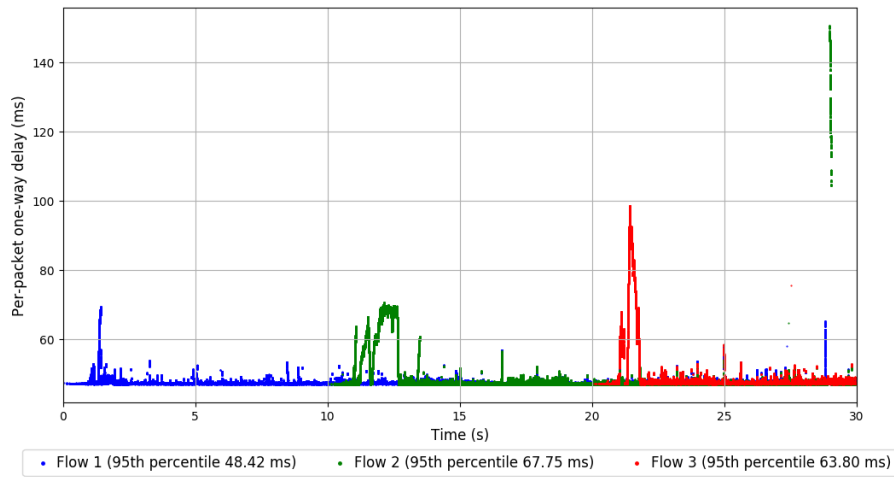
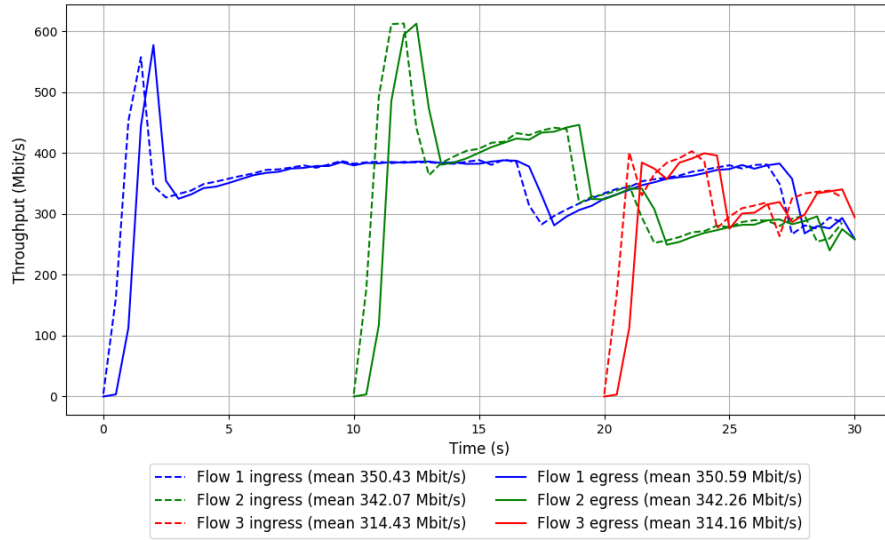
-- Flow 2:

Average throughput: 342.26 Mbit/s  
95th percentile per-packet one-way delay: 67.751 ms  
Loss rate: 0.41%

-- Flow 3:

Average throughput: 314.16 Mbit/s  
95th percentile per-packet one-way delay: 63.799 ms  
Loss rate: 1.04%

### Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-09-19 04:42:56

End at: 2019-09-19 04:43:26

Local clock offset: 0.202 ms

Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2019-09-19 07:50:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 708.44 Mbit/s

95th percentile per-packet one-way delay: 52.817 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 384.75 Mbit/s

95th percentile per-packet one-way delay: 50.467 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 338.62 Mbit/s

95th percentile per-packet one-way delay: 58.114 ms

Loss rate: 0.43%

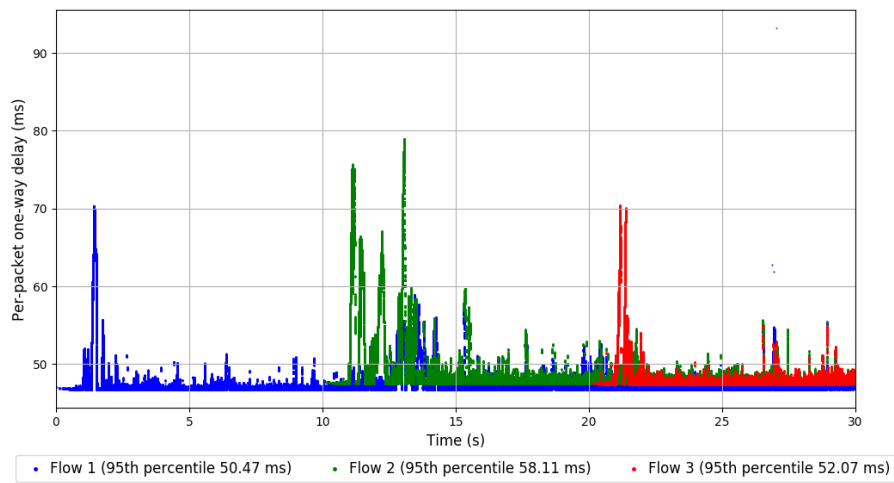
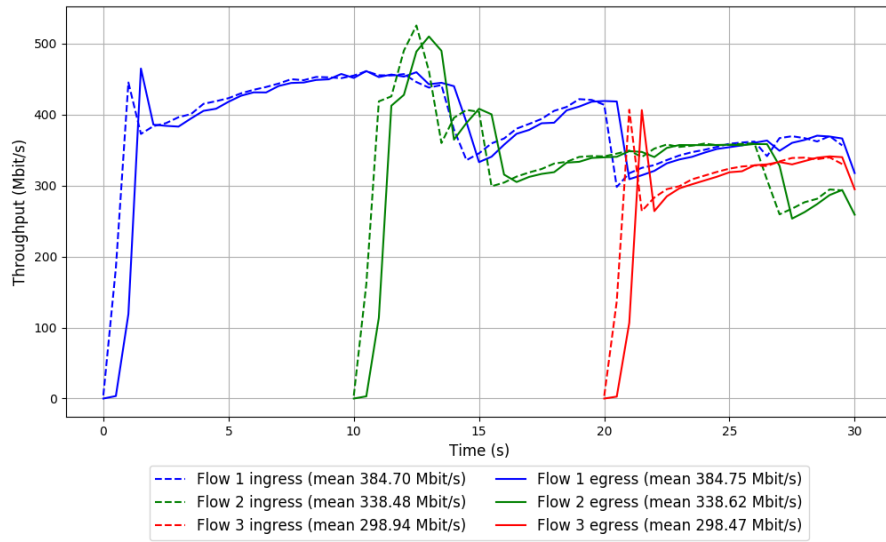
-- Flow 3:

Average throughput: 298.47 Mbit/s

95th percentile per-packet one-way delay: 52.071 ms

Loss rate: 1.09%

## Run 2: Report of TCP Cubic — Data Link





Run 3: Statistics of TCP Cubic

Start at: 2019-09-19 05:20:37  
End at: 2019-09-19 05:21:07  
Local clock offset: -0.199 ms  
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-09-19 07:51:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 760.54 Mbit/s  
95th percentile per-packet one-way delay: 61.425 ms  
Loss rate: 0.38%

-- Flow 1:

Average throughput: 437.10 Mbit/s  
95th percentile per-packet one-way delay: 53.426 ms  
Loss rate: 0.33%

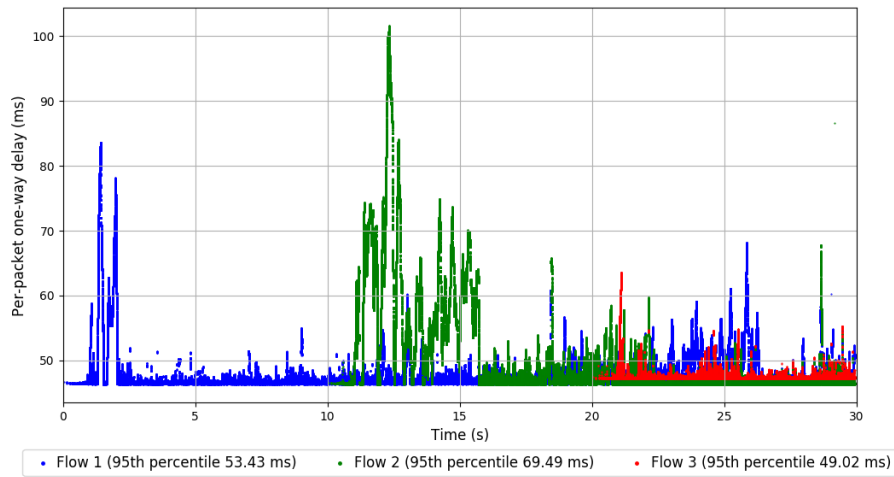
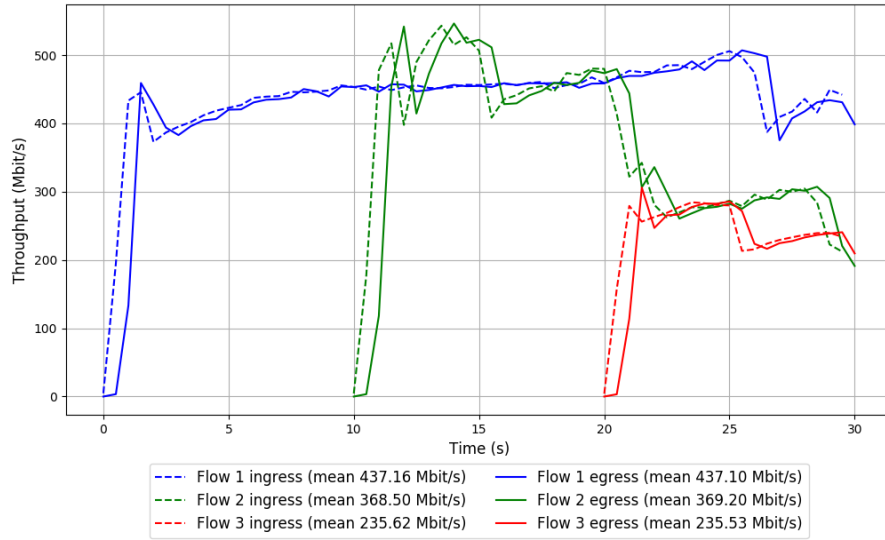
-- Flow 2:

Average throughput: 369.20 Mbit/s  
95th percentile per-packet one-way delay: 69.486 ms  
Loss rate: 0.28%

-- Flow 3:

Average throughput: 235.53 Mbit/s  
95th percentile per-packet one-way delay: 49.016 ms  
Loss rate: 0.99%

### Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-09-19 05:58:29

End at: 2019-09-19 05:58:59

Local clock offset: -0.188 ms

Remote clock offset: 0.06 ms

# Below is generated by plot.py at 2019-09-19 07:53:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 746.97 Mbit/s

95th percentile per-packet one-way delay: 52.232 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 391.63 Mbit/s

95th percentile per-packet one-way delay: 49.398 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 385.30 Mbit/s

95th percentile per-packet one-way delay: 57.474 ms

Loss rate: 0.39%

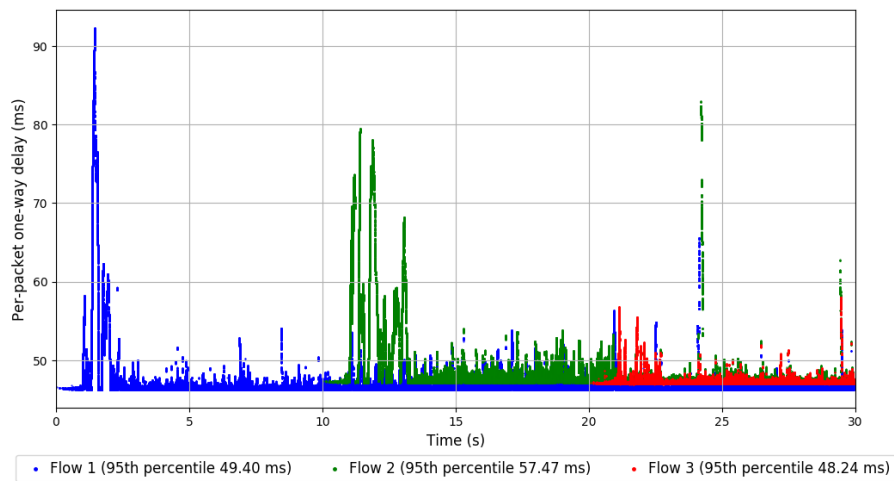
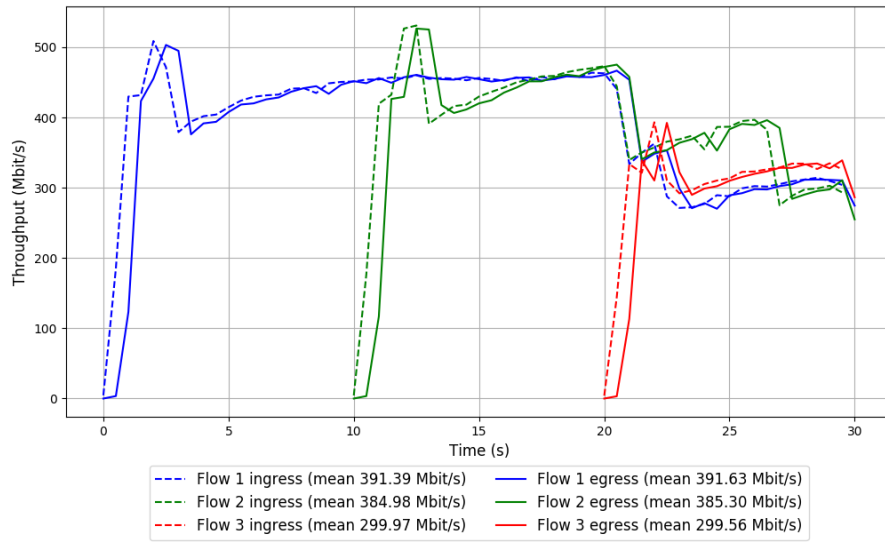
-- Flow 3:

Average throughput: 299.56 Mbit/s

95th percentile per-packet one-way delay: 48.241 ms

Loss rate: 1.09%

### Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-09-19 06:36:11

End at: 2019-09-19 06:36:41

Local clock offset: -0.547 ms

Remote clock offset: 0.058 ms

# Below is generated by plot.py at 2019-09-19 07:54:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 766.51 Mbit/s

95th percentile per-packet one-way delay: 82.098 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 393.99 Mbit/s

95th percentile per-packet one-way delay: 65.908 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 385.44 Mbit/s

95th percentile per-packet one-way delay: 137.924 ms

Loss rate: 0.41%

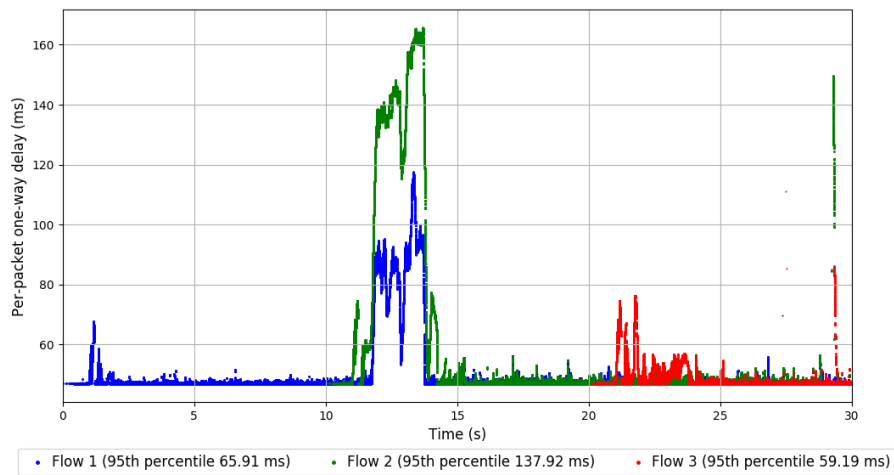
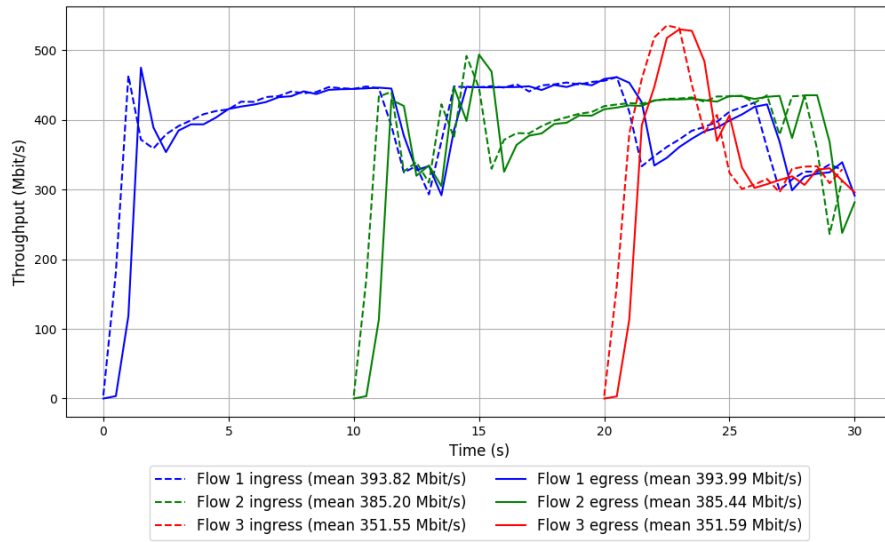
-- Flow 3:

Average throughput: 351.59 Mbit/s

95th percentile per-packet one-way delay: 59.192 ms

Loss rate: 0.93%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-09-19 04:15:05  
End at: 2019-09-19 04:15:35  
Local clock offset: -0.171 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2019-09-19 07:57:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 749.98 Mbit/s  
95th percentile per-packet one-way delay: 78.503 ms  
Loss rate: 0.49%

-- Flow 1:

Average throughput: 424.70 Mbit/s  
95th percentile per-packet one-way delay: 87.430 ms  
Loss rate: 0.45%

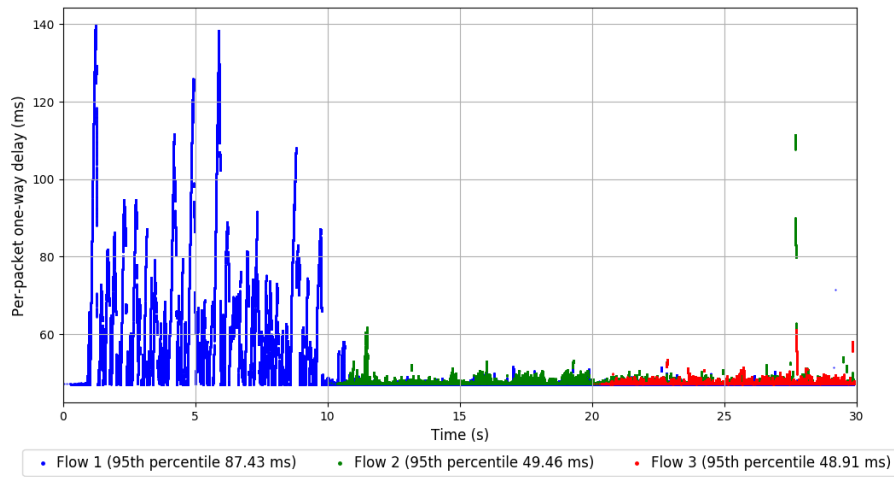
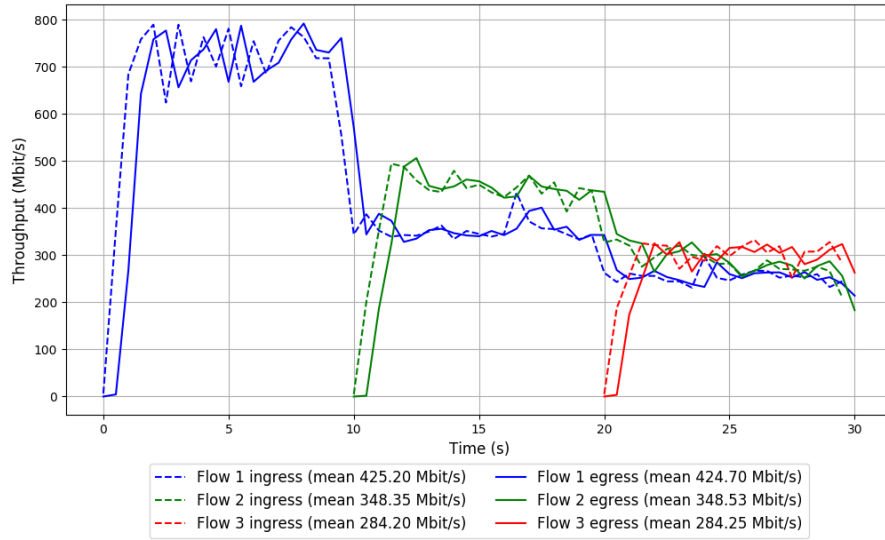
-- Flow 2:

Average throughput: 348.53 Mbit/s  
95th percentile per-packet one-way delay: 49.458 ms  
Loss rate: 0.36%

-- Flow 3:

Average throughput: 284.25 Mbit/s  
95th percentile per-packet one-way delay: 48.913 ms  
Loss rate: 0.95%

### Run 1: Report of FillP — Data Link





Run 2: Statistics of FillP

Start at: 2019-09-19 04:52:24  
End at: 2019-09-19 04:52:54  
Local clock offset: -0.168 ms  
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2019-09-19 08:05:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 735.68 Mbit/s  
95th percentile per-packet one-way delay: 56.523 ms  
Loss rate: 0.28%

-- Flow 1:

Average throughput: 451.98 Mbit/s  
95th percentile per-packet one-way delay: 63.032 ms  
Loss rate: 0.17%

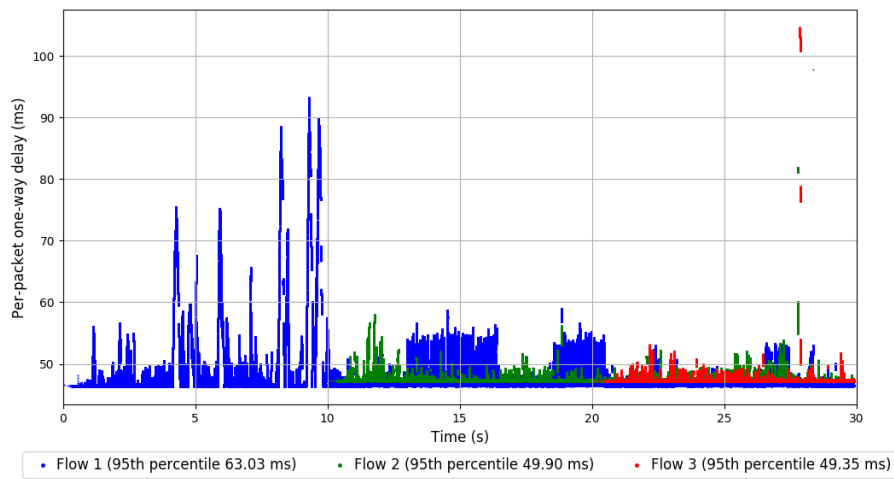
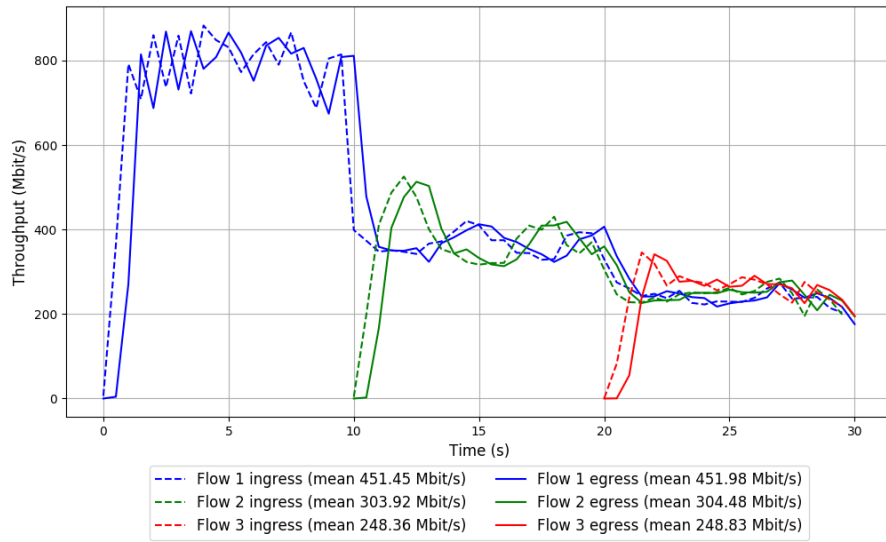
-- Flow 2:

Average throughput: 304.48 Mbit/s  
95th percentile per-packet one-way delay: 49.898 ms  
Loss rate: 0.30%

-- Flow 3:

Average throughput: 248.83 Mbit/s  
95th percentile per-packet one-way delay: 49.346 ms  
Loss rate: 0.88%

## Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-09-19 05:30:13  
End at: 2019-09-19 05:30:43  
Local clock offset: -0.209 ms  
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-09-19 08:07:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 760.68 Mbit/s  
95th percentile per-packet one-way delay: 85.188 ms  
Loss rate: 0.46%

-- Flow 1:

Average throughput: 467.29 Mbit/s  
95th percentile per-packet one-way delay: 91.076 ms  
Loss rate: 0.44%

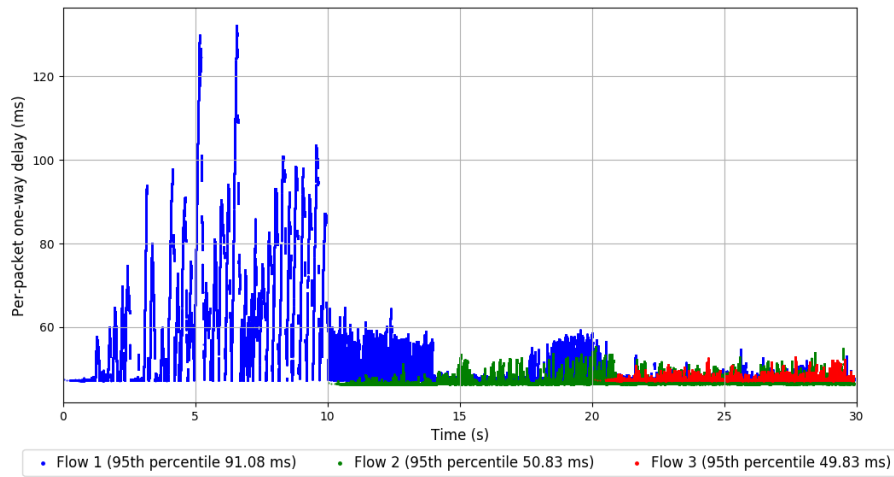
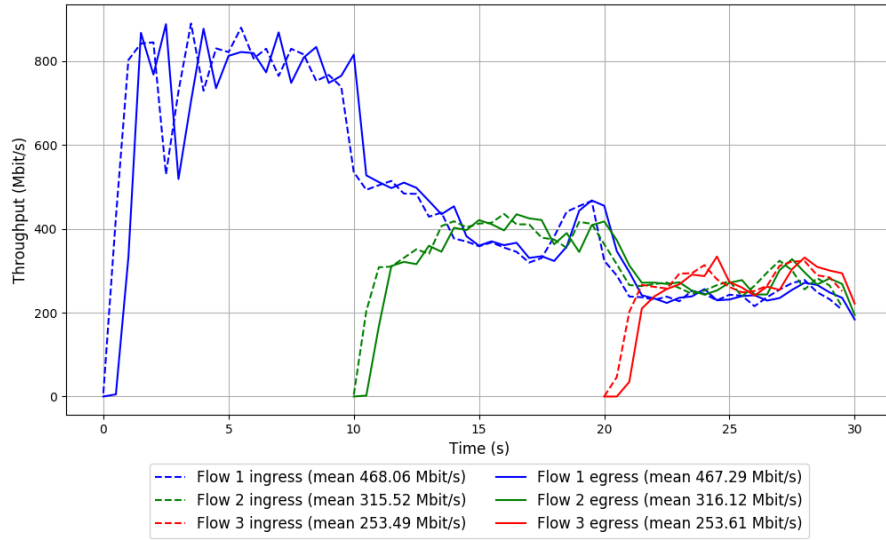
-- Flow 2:

Average throughput: 316.12 Mbit/s  
95th percentile per-packet one-way delay: 50.825 ms  
Loss rate: 0.28%

-- Flow 3:

Average throughput: 253.61 Mbit/s  
95th percentile per-packet one-way delay: 49.830 ms  
Loss rate: 1.02%

### Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-09-19 06:07:58

End at: 2019-09-19 06:08:28

Local clock offset: -0.213 ms

Remote clock offset: 0.04 ms

# Below is generated by plot.py at 2019-09-19 08:07:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 722.05 Mbit/s

95th percentile per-packet one-way delay: 91.151 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 448.99 Mbit/s

95th percentile per-packet one-way delay: 105.111 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 299.55 Mbit/s

95th percentile per-packet one-way delay: 51.952 ms

Loss rate: 0.51%

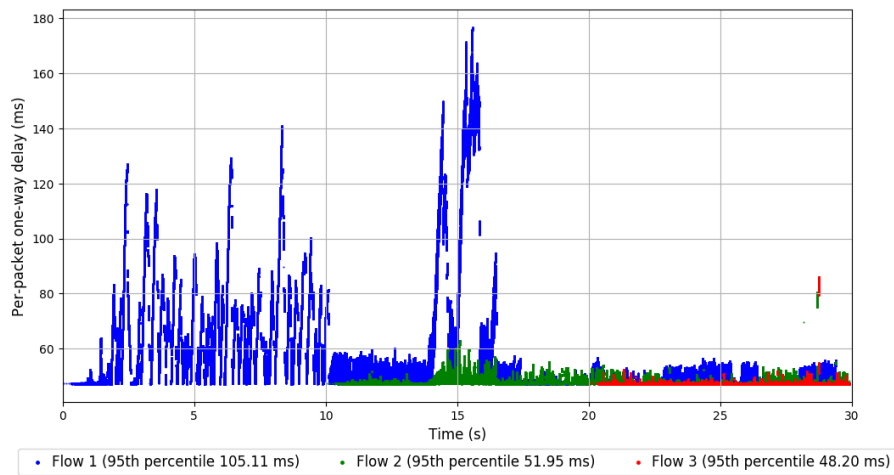
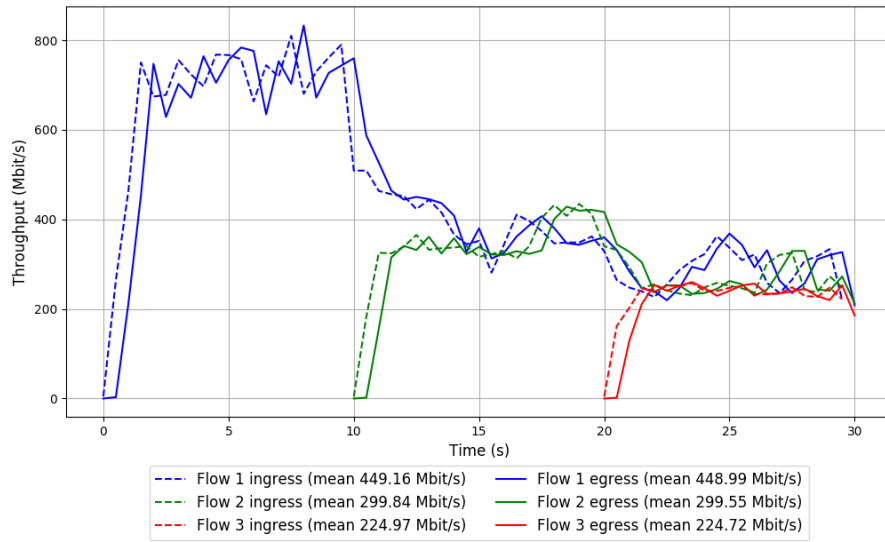
-- Flow 3:

Average throughput: 224.72 Mbit/s

95th percentile per-packet one-way delay: 48.203 ms

Loss rate: 1.22%

### Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-09-19 06:45:40

End at: 2019-09-19 06:46:10

Local clock offset: -0.14 ms

Remote clock offset: 0.078 ms

# Below is generated by plot.py at 2019-09-19 08:08:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 759.59 Mbit/s

95th percentile per-packet one-way delay: 56.921 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 493.16 Mbit/s

95th percentile per-packet one-way delay: 61.020 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 291.81 Mbit/s

95th percentile per-packet one-way delay: 47.618 ms

Loss rate: 0.48%

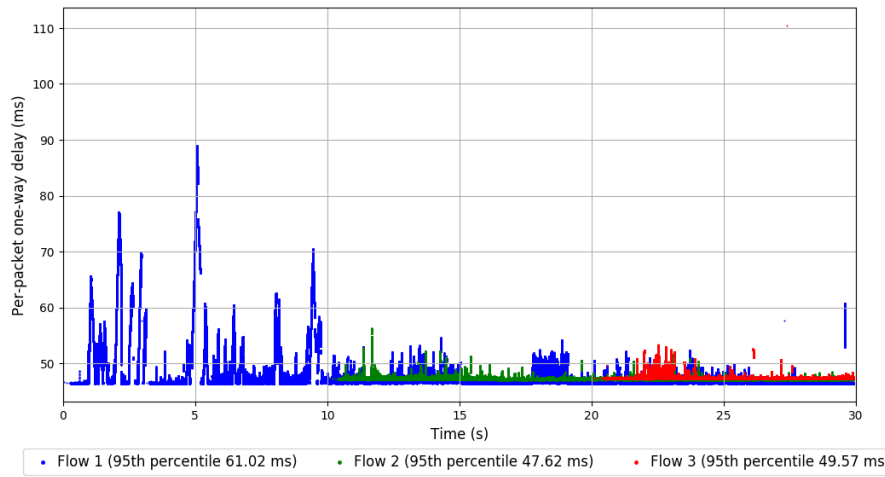
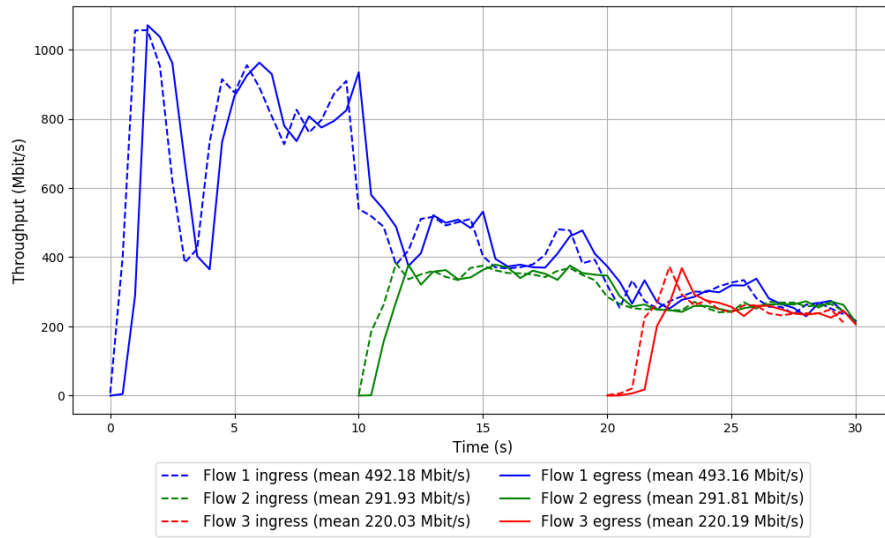
-- Flow 3:

Average throughput: 220.19 Mbit/s

95th percentile per-packet one-way delay: 49.570 ms

Loss rate: 0.90%

### Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2019-09-19 04:35:55

End at: 2019-09-19 04:36:25

Local clock offset: -0.154 ms

Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2019-09-19 08:08:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 756.75 Mbit/s

95th percentile per-packet one-way delay: 59.476 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 467.99 Mbit/s

95th percentile per-packet one-way delay: 63.662 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 308.52 Mbit/s

95th percentile per-packet one-way delay: 49.920 ms

Loss rate: 0.29%

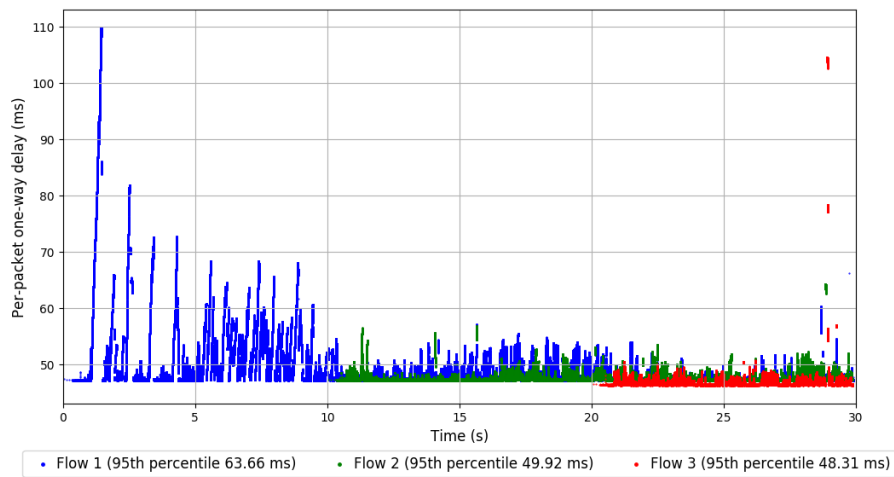
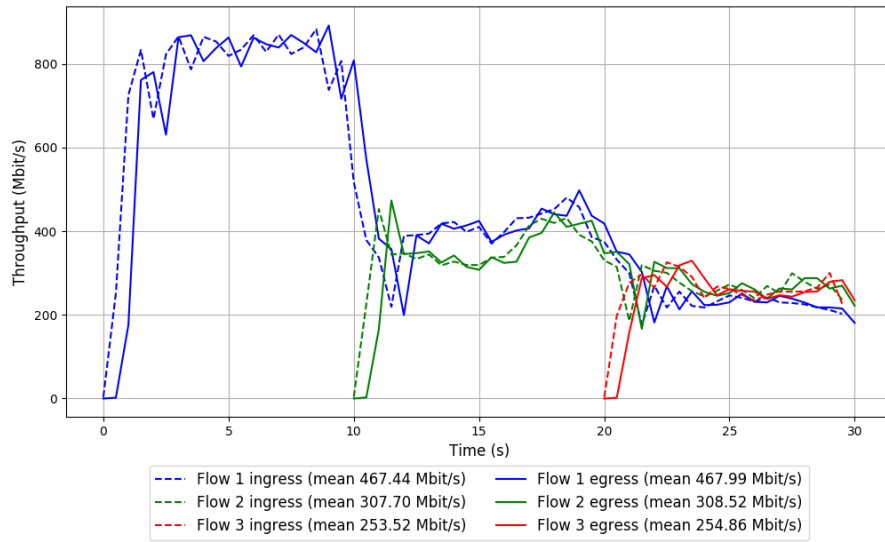
-- Flow 3:

Average throughput: 254.86 Mbit/s

95th percentile per-packet one-way delay: 48.315 ms

Loss rate: 0.54%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-09-19 05:13:30

End at: 2019-09-19 05:14:00

Local clock offset: -0.184 ms

Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2019-09-19 08:08:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 648.80 Mbit/s

95th percentile per-packet one-way delay: 52.739 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 384.89 Mbit/s

95th percentile per-packet one-way delay: 56.714 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 288.88 Mbit/s

95th percentile per-packet one-way delay: 49.861 ms

Loss rate: 0.41%

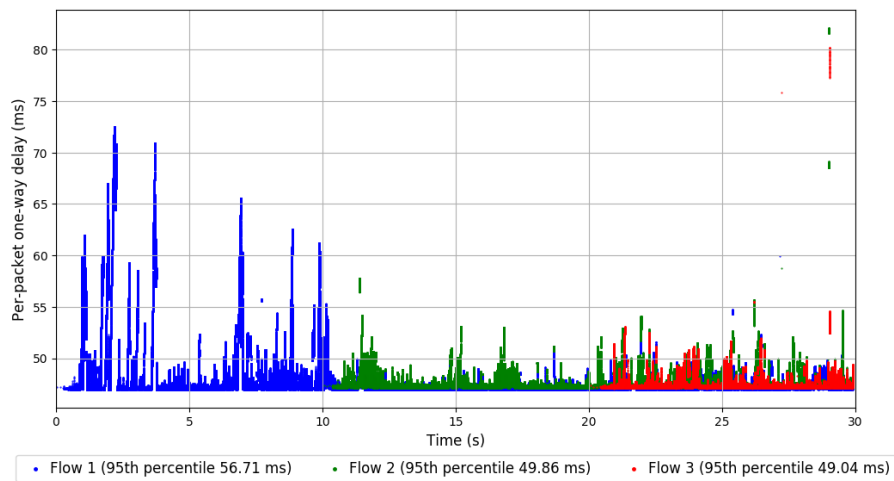
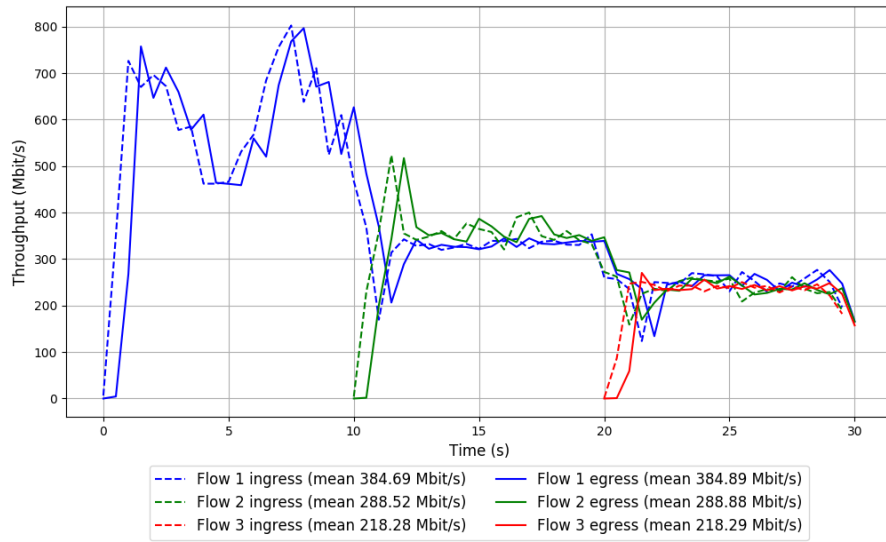
-- Flow 3:

Average throughput: 218.29 Mbit/s

95th percentile per-packet one-way delay: 49.039 ms

Loss rate: 0.99%

## Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-09-19 05:51:24

End at: 2019-09-19 05:51:54

Local clock offset: -0.227 ms

Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2019-09-19 08:10:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 670.47 Mbit/s

95th percentile per-packet one-way delay: 55.388 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 405.35 Mbit/s

95th percentile per-packet one-way delay: 58.792 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 289.58 Mbit/s

95th percentile per-packet one-way delay: 48.961 ms

Loss rate: 0.42%

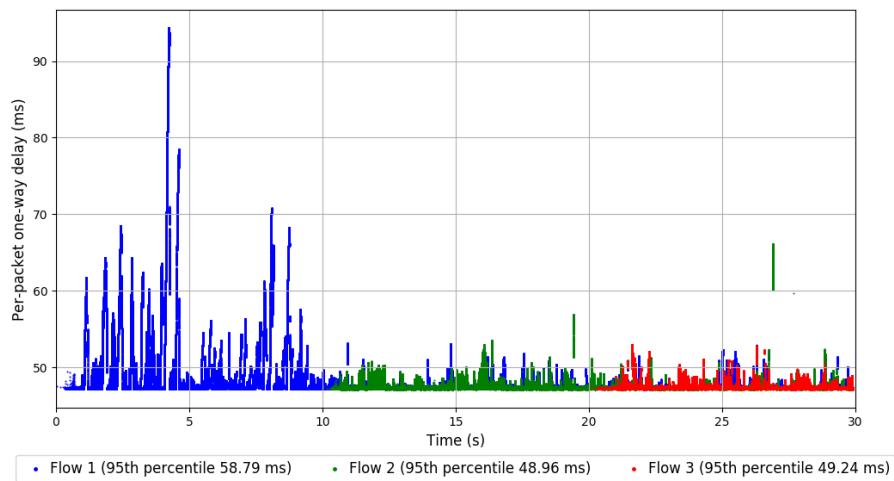
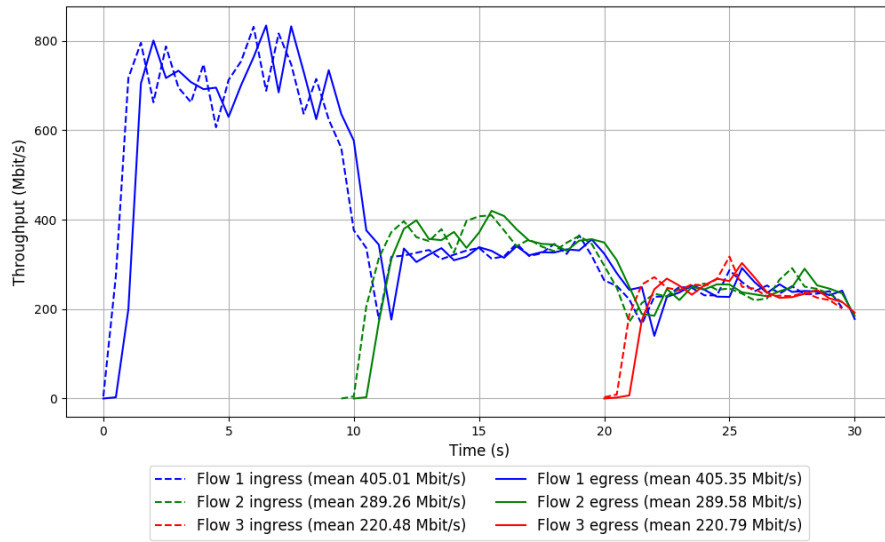
-- Flow 3:

Average throughput: 220.79 Mbit/s

95th percentile per-packet one-way delay: 49.238 ms

Loss rate: 0.85%

### Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-09-19 06:29:03

End at: 2019-09-19 06:29:33

Local clock offset: -0.563 ms

Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2019-09-19 08:14:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 695.59 Mbit/s

95th percentile per-packet one-way delay: 57.385 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 426.43 Mbit/s

95th percentile per-packet one-way delay: 60.342 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 297.54 Mbit/s

95th percentile per-packet one-way delay: 52.011 ms

Loss rate: 0.41%

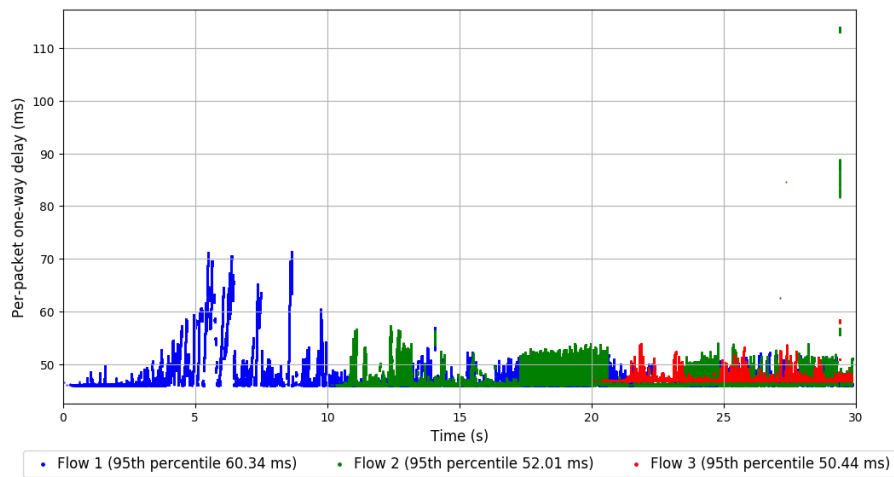
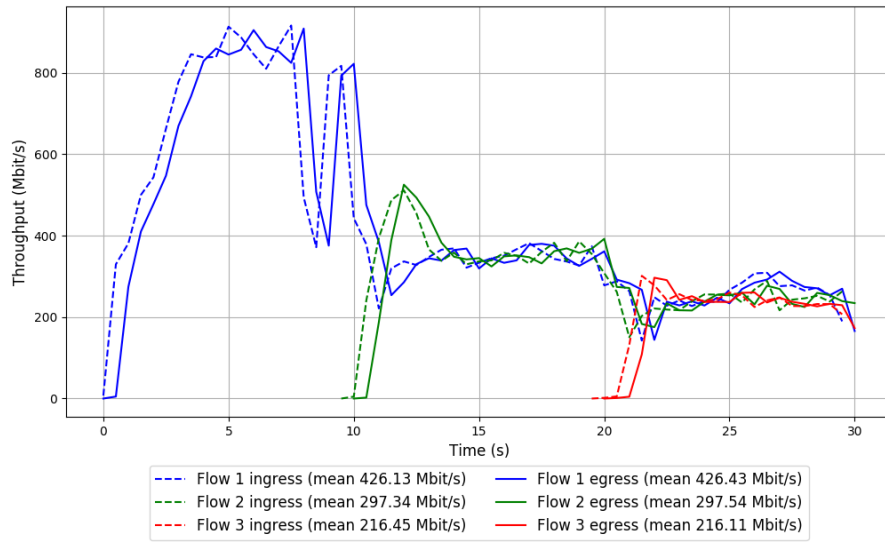
-- Flow 3:

Average throughput: 216.11 Mbit/s

95th percentile per-packet one-way delay: 50.436 ms

Loss rate: 1.24%

### Run 4: Report of FillP-Sheep — Data Link



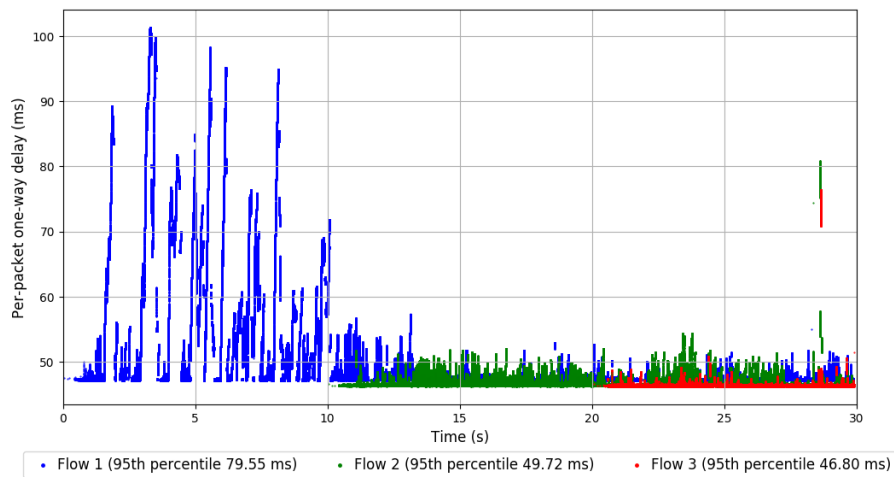
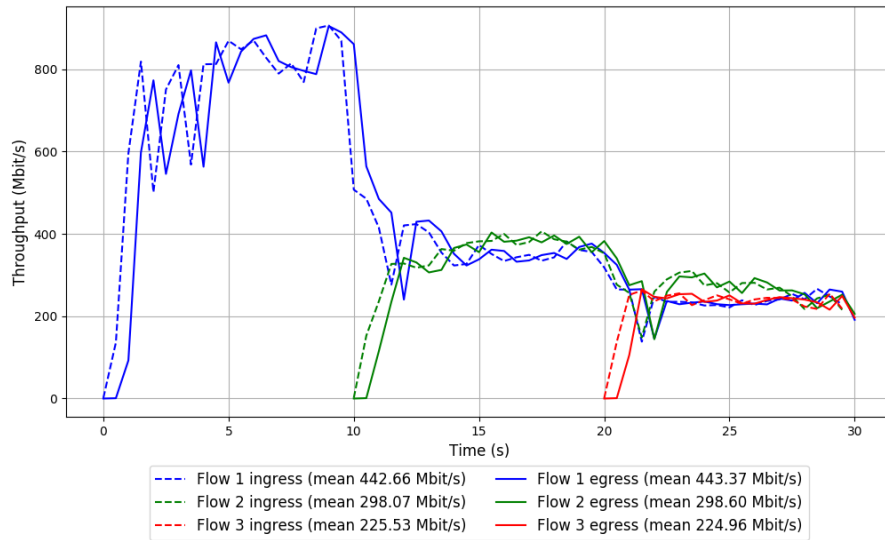


Run 5: Statistics of FillP-Sheep

Start at: 2019-09-19 07:06:38  
End at: 2019-09-19 07:07:08  
Local clock offset: -0.189 ms  
Remote clock offset: -0.004 ms

```
# Below is generated by plot.py at 2019-09-19 08:22:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 715.50 Mbit/s
95th percentile per-packet one-way delay: 73.406 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 443.37 Mbit/s
95th percentile per-packet one-way delay: 79.547 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 298.60 Mbit/s
95th percentile per-packet one-way delay: 49.716 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 224.96 Mbit/s
95th percentile per-packet one-way delay: 46.805 ms
Loss rate: 1.04%
```

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-09-19 04:07:22  
End at: 2019-09-19 04:07:52  
Local clock offset: -0.157 ms  
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2019-09-19 08:22:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 251.55 Mbit/s  
95th percentile per-packet one-way delay: 48.364 ms  
Loss rate: 0.47%

-- Flow 1:

Average throughput: 109.53 Mbit/s  
95th percentile per-packet one-way delay: 47.894 ms  
Loss rate: 0.32%

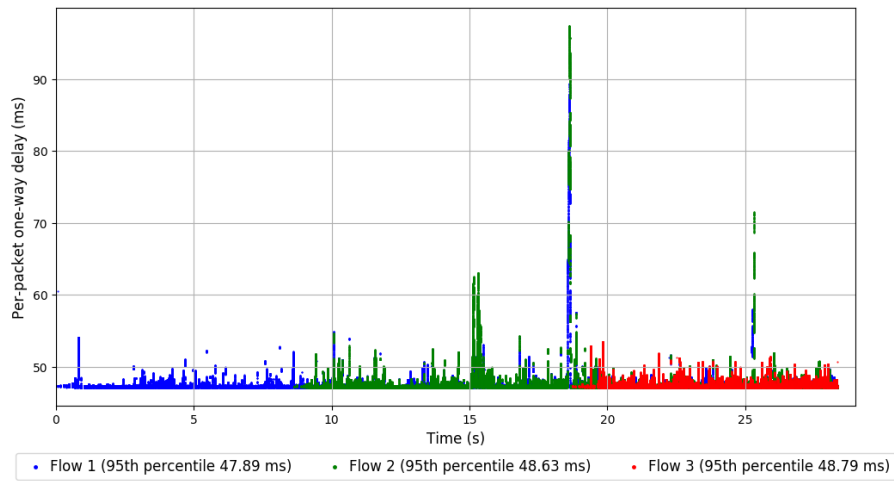
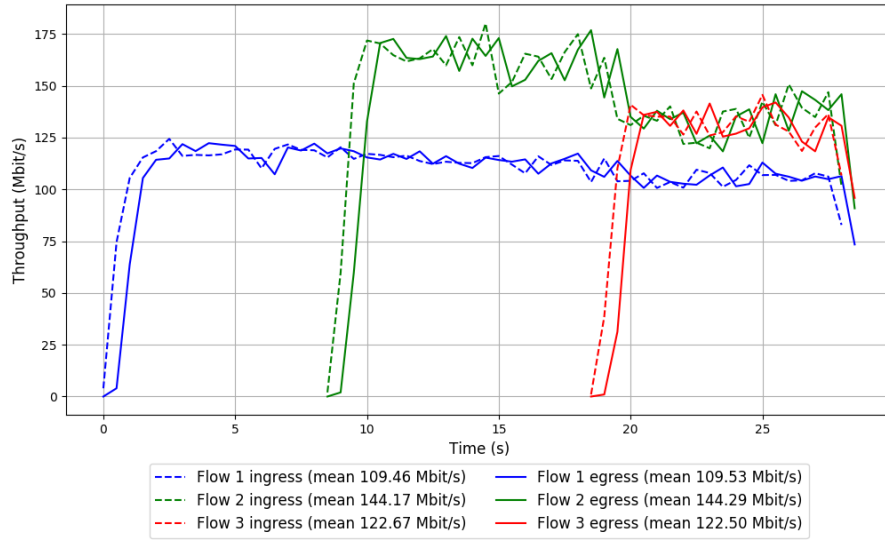
-- Flow 2:

Average throughput: 144.29 Mbit/s  
95th percentile per-packet one-way delay: 48.627 ms  
Loss rate: 0.38%

-- Flow 3:

Average throughput: 122.50 Mbit/s  
95th percentile per-packet one-way delay: 48.787 ms  
Loss rate: 1.07%

# Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-09-19 04:44:43

End at: 2019-09-19 04:45:13

Local clock offset: -0.175 ms

Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2019-09-19 08:22:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 265.54 Mbit/s

95th percentile per-packet one-way delay: 48.245 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 156.22 Mbit/s

95th percentile per-packet one-way delay: 48.474 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 103.62 Mbit/s

95th percentile per-packet one-way delay: 47.865 ms

Loss rate: 0.46%

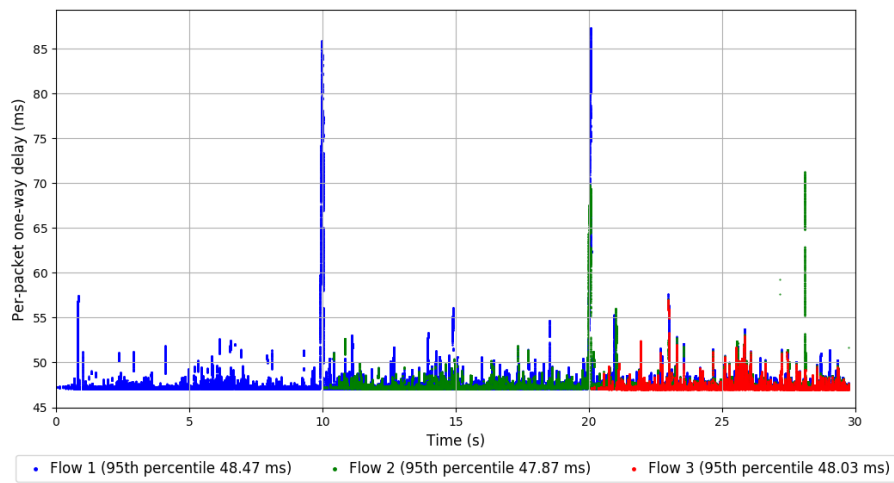
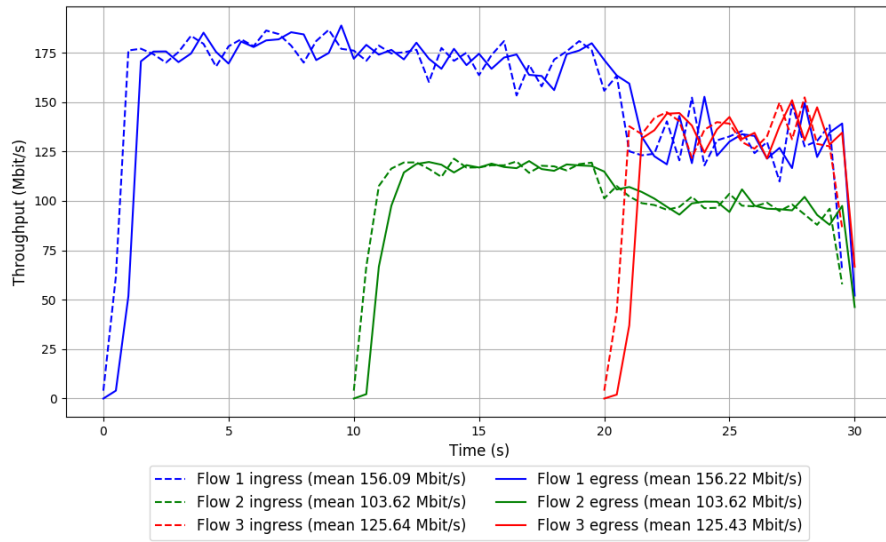
-- Flow 3:

Average throughput: 125.43 Mbit/s

95th percentile per-packet one-way delay: 48.026 ms

Loss rate: 1.16%

## Run 2: Report of Indigo — Data Link

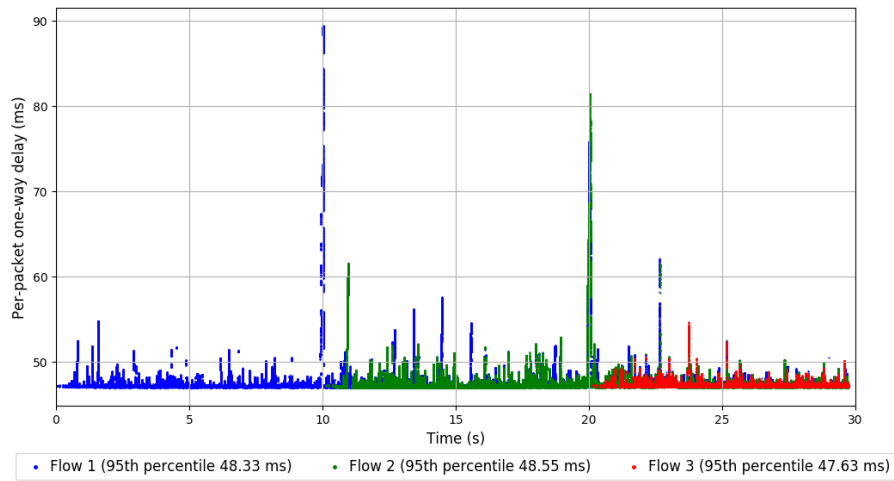
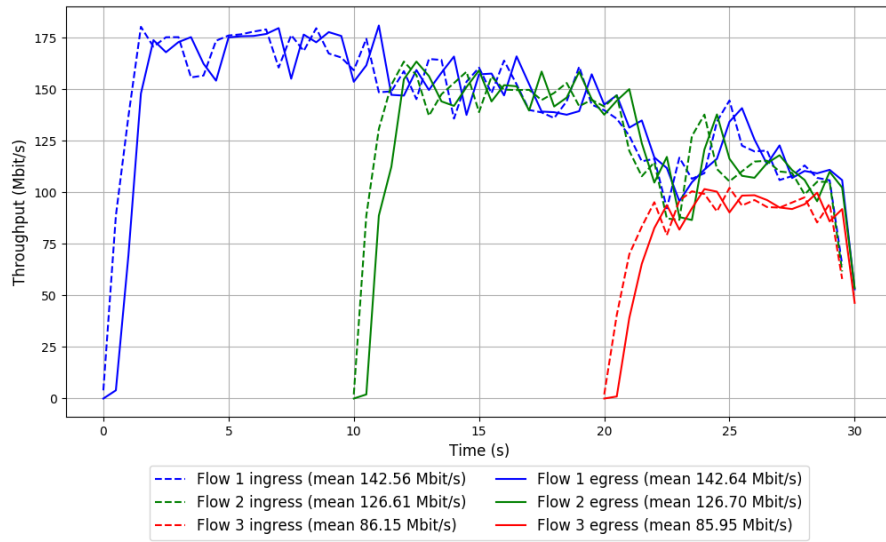


Run 3: Statistics of Indigo

Start at: 2019-09-19 05:22:27  
End at: 2019-09-19 05:22:57  
Local clock offset: -0.152 ms  
Remote clock offset: -0.024 ms

```
# Below is generated by plot.py at 2019-09-19 08:22:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 253.95 Mbit/s
95th percentile per-packet one-way delay: 48.291 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 142.64 Mbit/s
95th percentile per-packet one-way delay: 48.328 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 126.70 Mbit/s
95th percentile per-packet one-way delay: 48.554 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 85.95 Mbit/s
95th percentile per-packet one-way delay: 47.627 ms
Loss rate: 1.23%
```

### Run 3: Report of Indigo — Data Link





Run 4: Statistics of Indigo

Start at: 2019-09-19 06:00:18

End at: 2019-09-19 06:00:48

Local clock offset: -0.175 ms

Remote clock offset: 0.04 ms

# Below is generated by plot.py at 2019-09-19 08:22:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 232.07 Mbit/s

95th percentile per-packet one-way delay: 48.249 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 107.80 Mbit/s

95th percentile per-packet one-way delay: 47.660 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 137.36 Mbit/s

95th percentile per-packet one-way delay: 49.158 ms

Loss rate: 0.46%

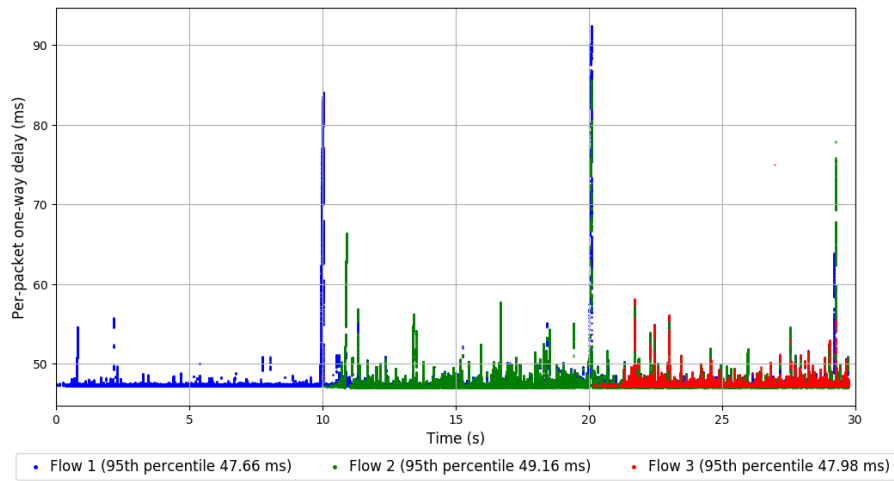
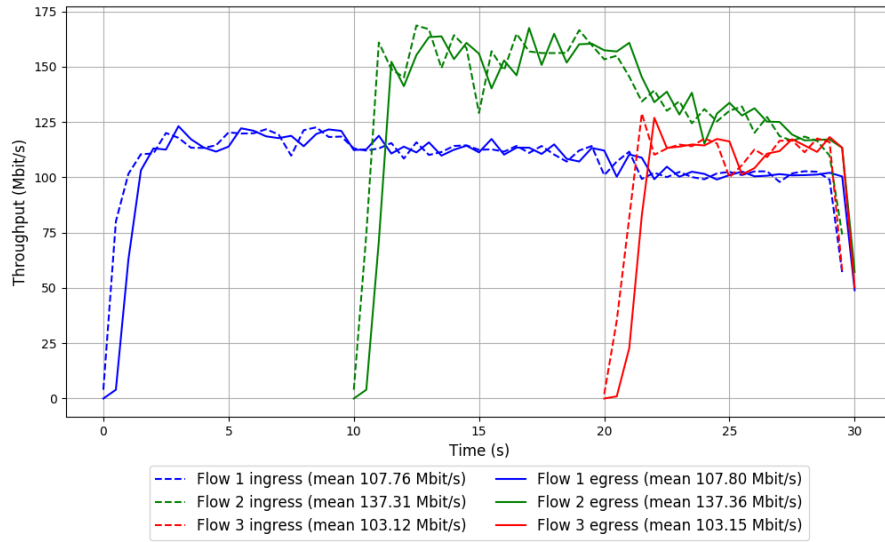
-- Flow 3:

Average throughput: 103.15 Mbit/s

95th percentile per-packet one-way delay: 47.983 ms

Loss rate: 0.99%

### Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-09-19 06:38:02

End at: 2019-09-19 06:38:32

Local clock offset: -0.161 ms

Remote clock offset: 0.089 ms

# Below is generated by plot.py at 2019-09-19 08:22:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 224.72 Mbit/s

95th percentile per-packet one-way delay: 47.886 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 112.91 Mbit/s

95th percentile per-packet one-way delay: 47.624 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 106.73 Mbit/s

95th percentile per-packet one-way delay: 47.647 ms

Loss rate: 0.50%

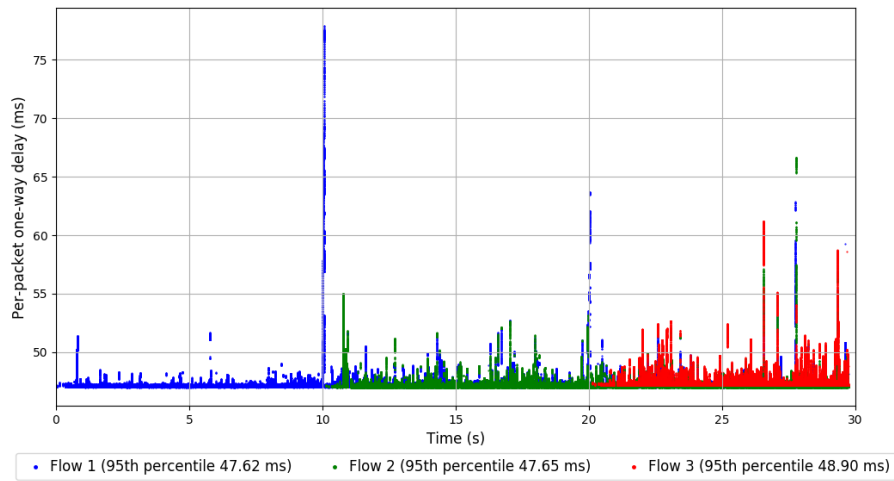
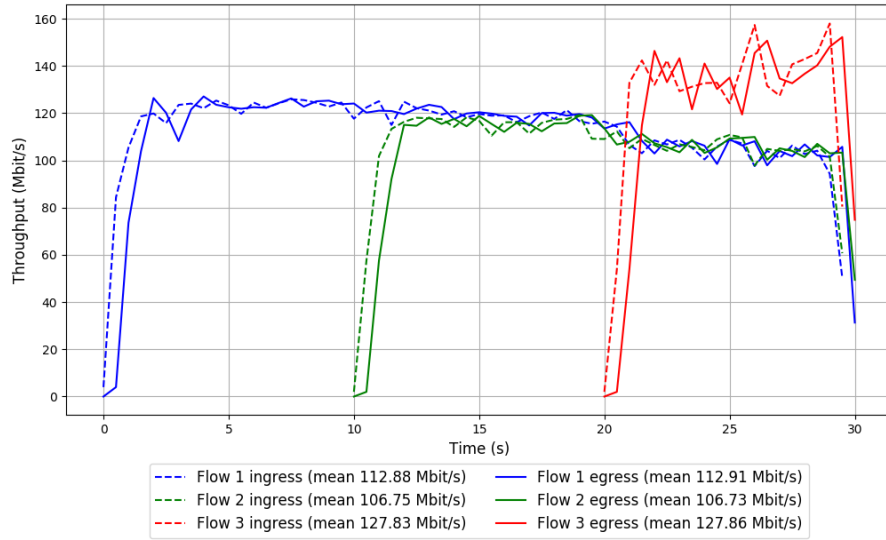
-- Flow 3:

Average throughput: 127.86 Mbit/s

95th percentile per-packet one-way delay: 48.901 ms

Loss rate: 0.96%

### Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-09-19 04:16:48

End at: 2019-09-19 04:17:18

Local clock offset: -0.179 ms

Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2019-09-19 08:22:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 481.70 Mbit/s

95th percentile per-packet one-way delay: 49.004 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 306.17 Mbit/s

95th percentile per-packet one-way delay: 49.212 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 232.33 Mbit/s

95th percentile per-packet one-way delay: 48.417 ms

Loss rate: 0.34%

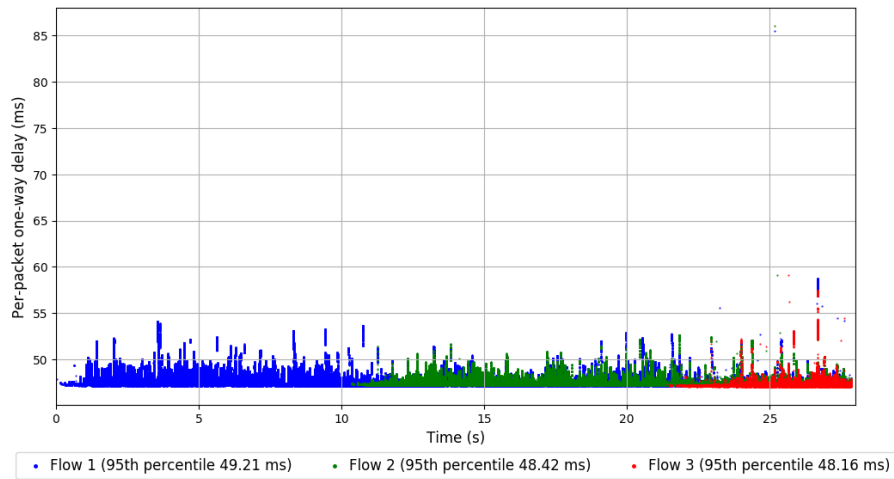
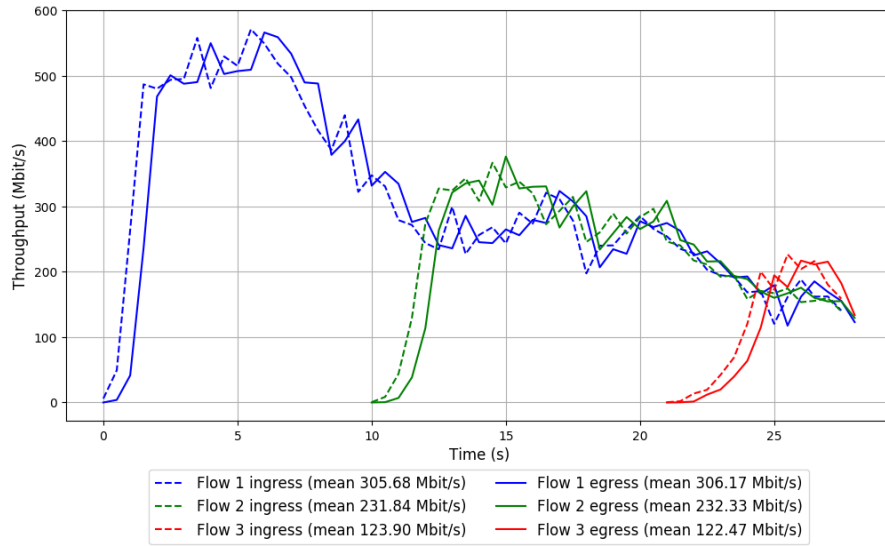
-- Flow 3:

Average throughput: 122.47 Mbit/s

95th percentile per-packet one-way delay: 48.162 ms

Loss rate: 2.62%

### Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-09-19 04:54:06

End at: 2019-09-19 04:54:36

Local clock offset: -0.159 ms

Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2019-09-19 08:22:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 445.63 Mbit/s

95th percentile per-packet one-way delay: 49.307 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 296.77 Mbit/s

95th percentile per-packet one-way delay: 49.914 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 210.72 Mbit/s

95th percentile per-packet one-way delay: 48.387 ms

Loss rate: 0.39%

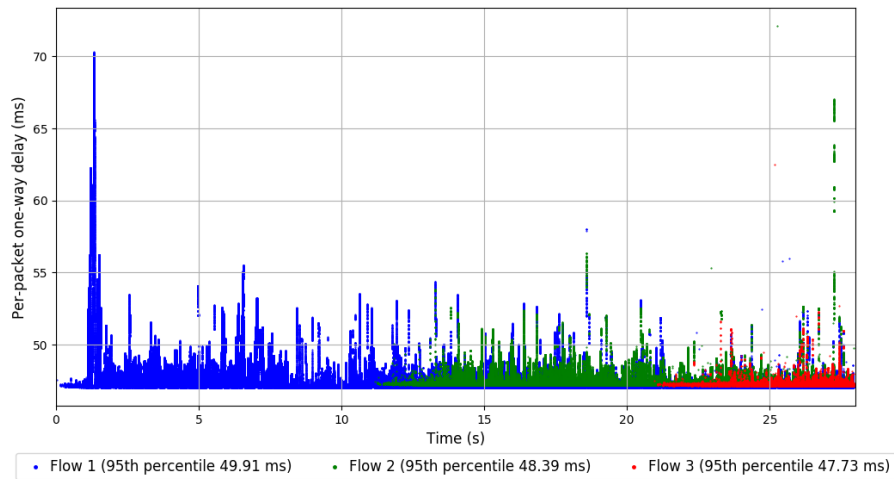
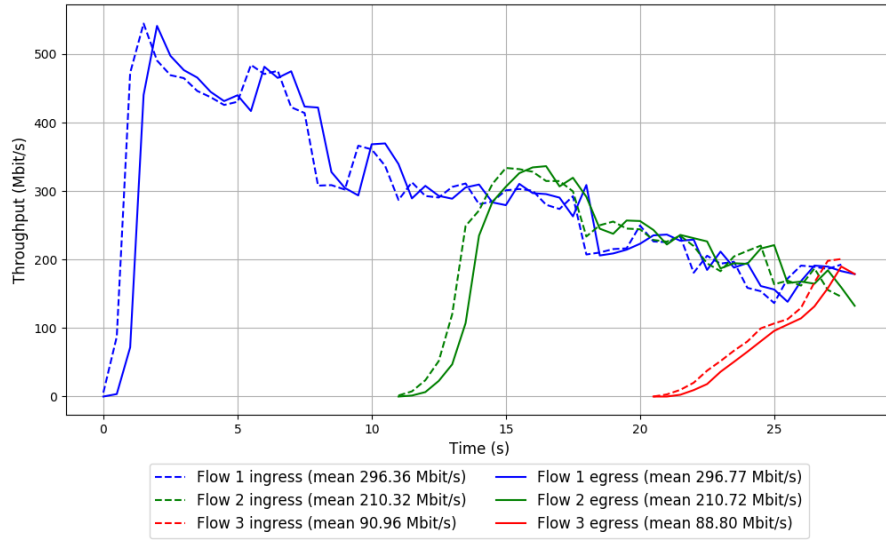
-- Flow 3:

Average throughput: 88.80 Mbit/s

95th percentile per-packet one-way delay: 47.733 ms

Loss rate: 3.69%

## Run 2: Report of Indigo-MusesC3 — Data Link





Run 3: Statistics of Indigo-MusesC3

Start at: 2019-09-19 05:31:56  
End at: 2019-09-19 05:32:26  
Local clock offset: -0.163 ms  
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2019-09-19 08:23:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 427.25 Mbit/s  
95th percentile per-packet one-way delay: 48.908 ms  
Loss rate: 0.37%

-- Flow 1:

Average throughput: 277.88 Mbit/s  
95th percentile per-packet one-way delay: 49.236 ms  
Loss rate: 0.22%

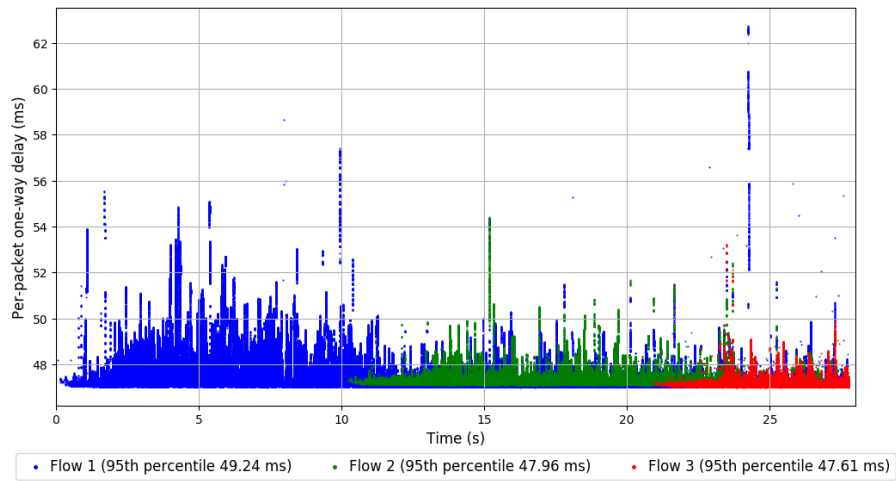
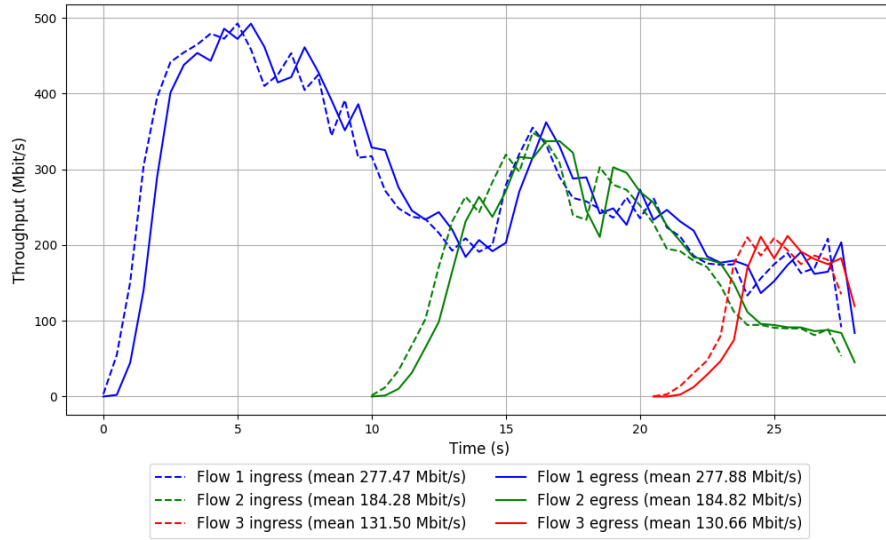
-- Flow 2:

Average throughput: 184.82 Mbit/s  
95th percentile per-packet one-way delay: 47.958 ms  
Loss rate: 0.27%

-- Flow 3:

Average throughput: 130.66 Mbit/s  
95th percentile per-packet one-way delay: 47.610 ms  
Loss rate: 2.01%

### Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-09-19 06:09:39

End at: 2019-09-19 06:10:09

Local clock offset: -0.145 ms

Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2019-09-19 08:24:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 445.42 Mbit/s

95th percentile per-packet one-way delay: 48.300 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 281.27 Mbit/s

95th percentile per-packet one-way delay: 48.500 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 208.63 Mbit/s

95th percentile per-packet one-way delay: 48.032 ms

Loss rate: 0.58%

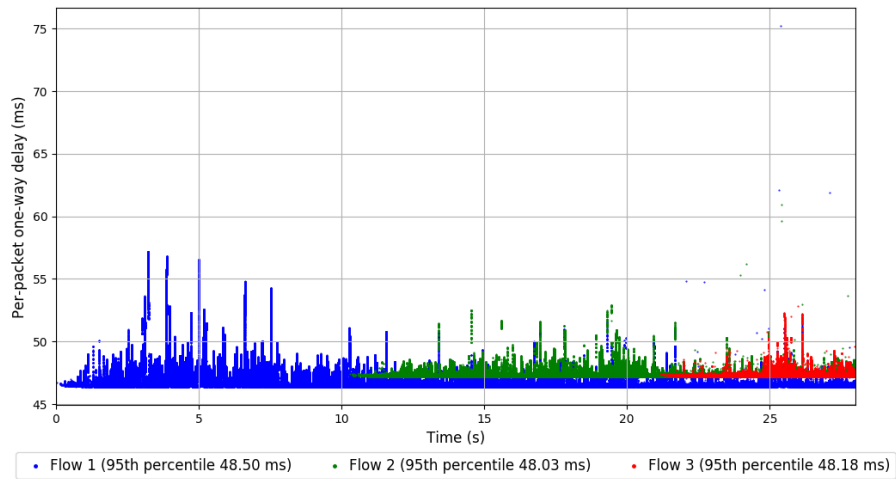
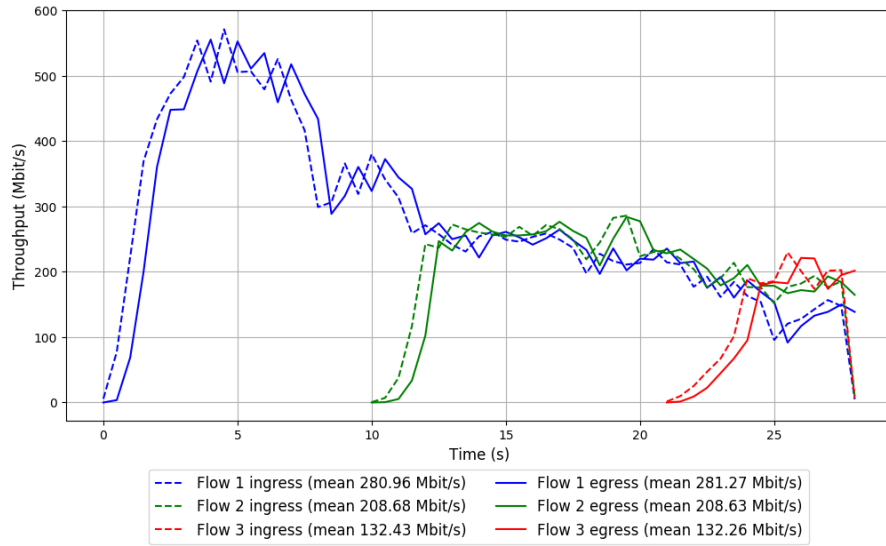
-- Flow 3:

Average throughput: 132.26 Mbit/s

95th percentile per-packet one-way delay: 48.180 ms

Loss rate: 1.48%

### Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-09-19 06:47:23

End at: 2019-09-19 06:47:53

Local clock offset: -0.174 ms

Remote clock offset: 0.083 ms

# Below is generated by plot.py at 2019-09-19 08:24:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 457.26 Mbit/s

95th percentile per-packet one-way delay: 49.314 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 298.20 Mbit/s

95th percentile per-packet one-way delay: 49.915 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 222.77 Mbit/s

95th percentile per-packet one-way delay: 48.310 ms

Loss rate: 0.53%

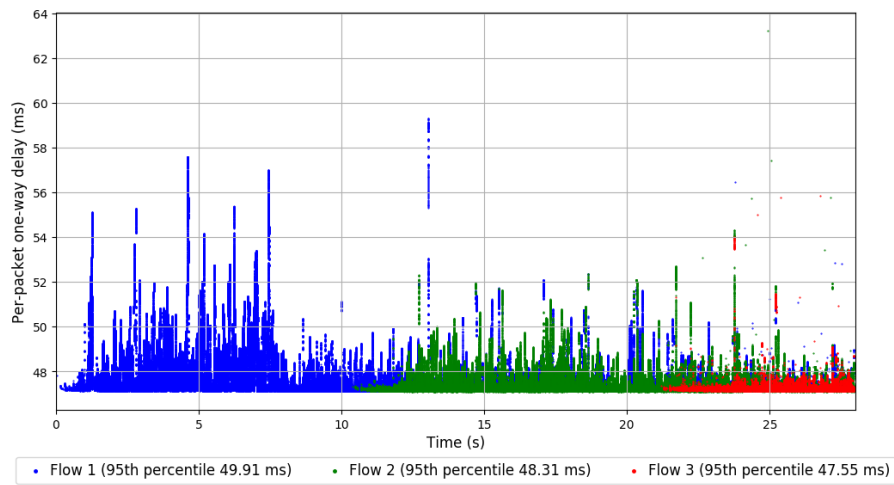
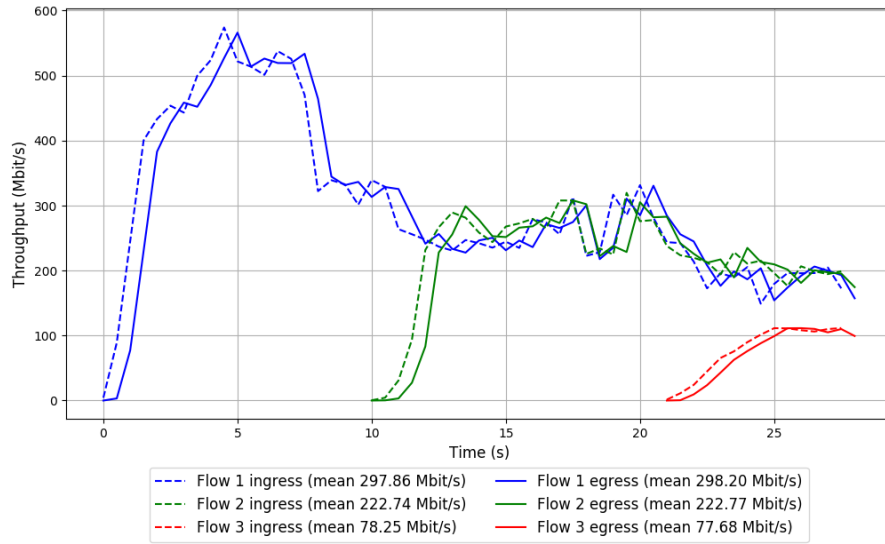
-- Flow 3:

Average throughput: 77.68 Mbit/s

95th percentile per-packet one-way delay: 47.550 ms

Loss rate: 2.11%

### Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-09-19 04:32:47  
End at: 2019-09-19 04:33:17  
Local clock offset: -0.126 ms  
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2019-09-19 08:25:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 507.11 Mbit/s  
95th percentile per-packet one-way delay: 56.171 ms  
Loss rate: 0.36%

-- Flow 1:

Average throughput: 344.25 Mbit/s  
95th percentile per-packet one-way delay: 58.955 ms  
Loss rate: 0.15%

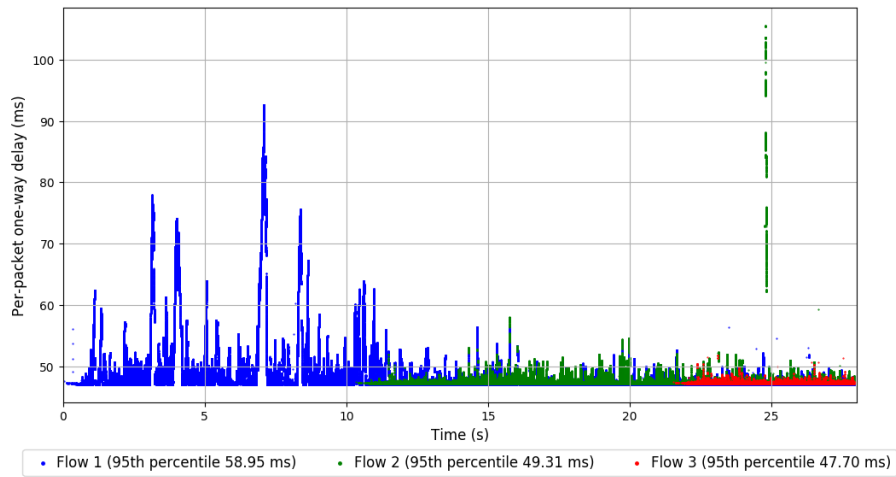
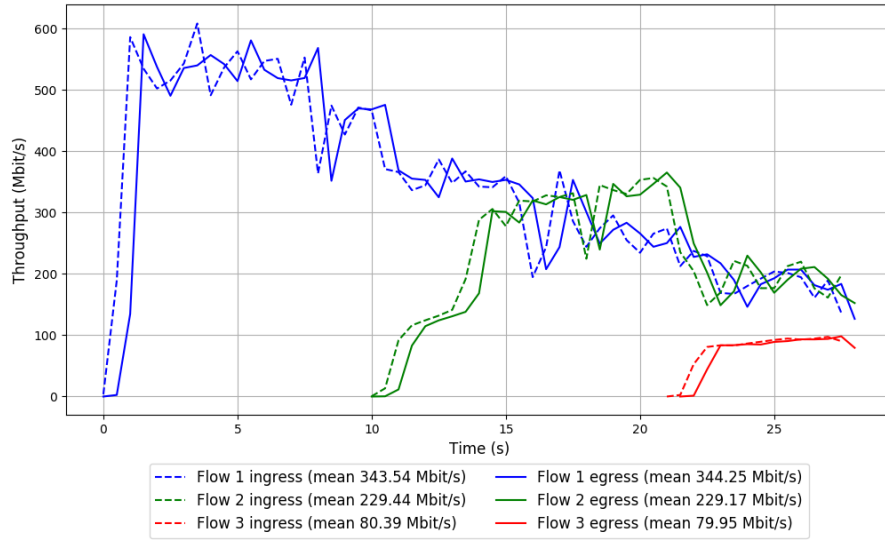
-- Flow 2:

Average throughput: 229.17 Mbit/s  
95th percentile per-packet one-way delay: 49.314 ms  
Loss rate: 0.66%

-- Flow 3:

Average throughput: 79.95 Mbit/s  
95th percentile per-packet one-way delay: 47.697 ms  
Loss rate: 1.92%

# Run 1: Report of Indigo-MusesC5 — Data Link





Run 2: Statistics of Indigo-MusesC5

Start at: 2019-09-19 05:10:19  
End at: 2019-09-19 05:10:49  
Local clock offset: -0.166 ms  
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2019-09-19 08:25:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 496.00 Mbit/s  
95th percentile per-packet one-way delay: 57.420 ms  
Loss rate: 0.30%

-- Flow 1:

Average throughput: 331.20 Mbit/s  
95th percentile per-packet one-way delay: 62.875 ms  
Loss rate: 0.18%

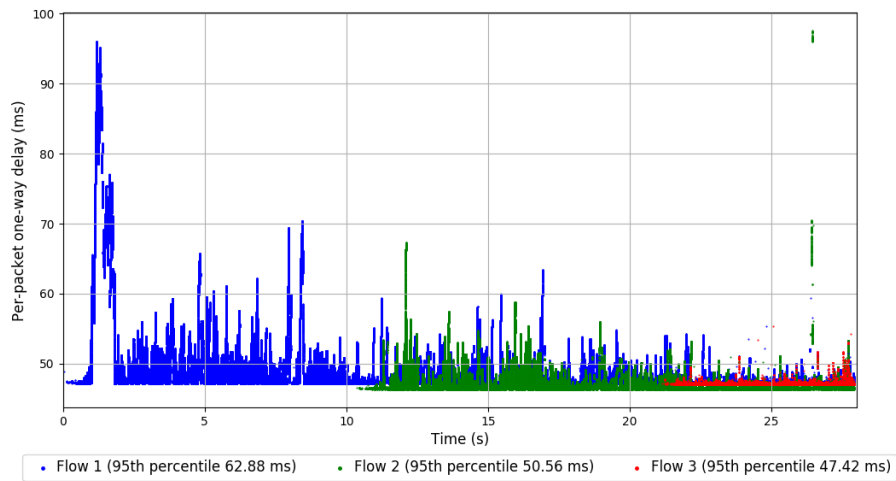
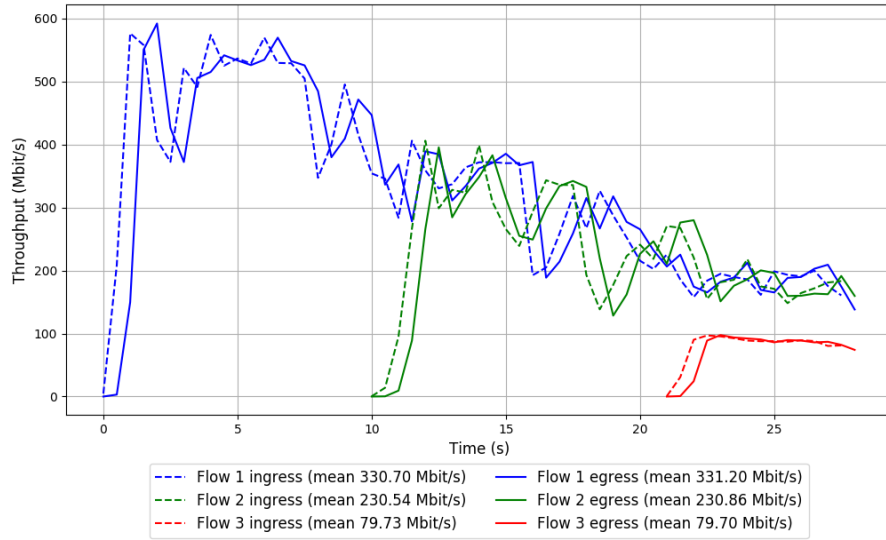
-- Flow 2:

Average throughput: 230.86 Mbit/s  
95th percentile per-packet one-way delay: 50.559 ms  
Loss rate: 0.42%

-- Flow 3:

Average throughput: 79.70 Mbit/s  
95th percentile per-packet one-way delay: 47.419 ms  
Loss rate: 1.43%

## Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-09-19 05:48:15

End at: 2019-09-19 05:48:45

Local clock offset: -0.179 ms

Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2019-09-19 08:27:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 509.76 Mbit/s

95th percentile per-packet one-way delay: 53.471 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 325.95 Mbit/s

95th percentile per-packet one-way delay: 54.600 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 267.16 Mbit/s

95th percentile per-packet one-way delay: 50.264 ms

Loss rate: 0.41%

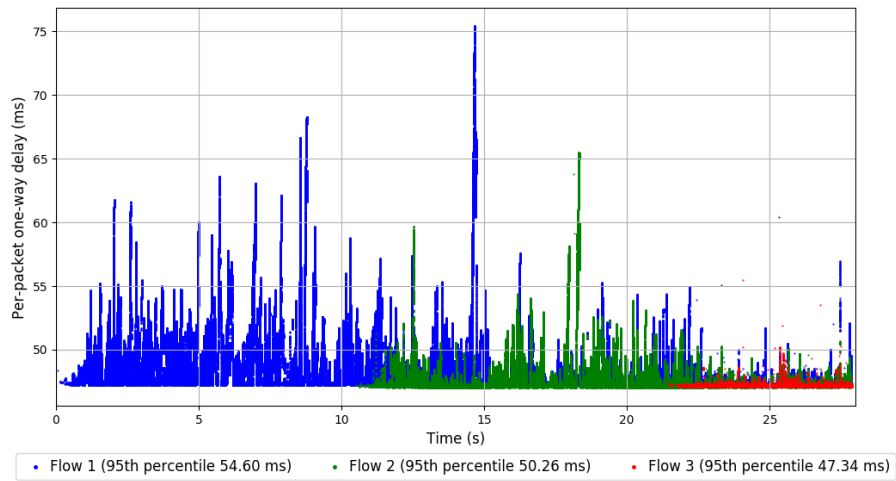
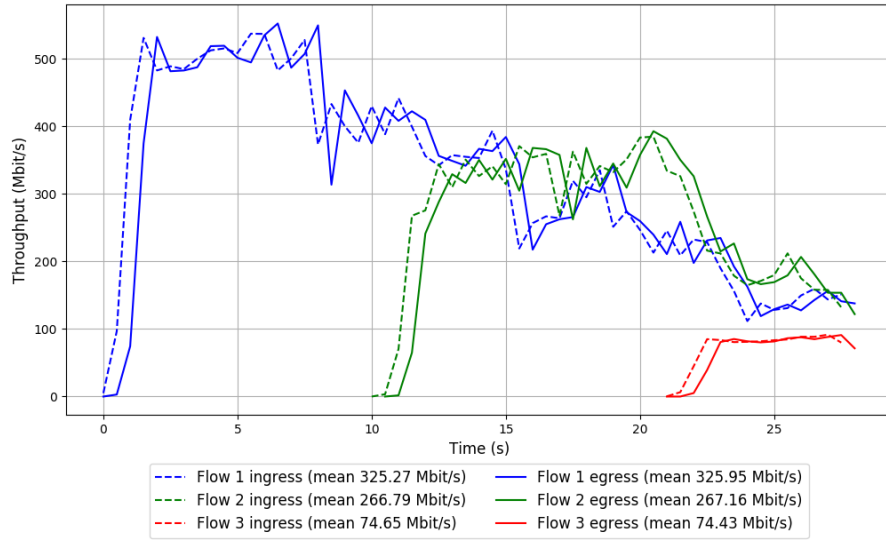
-- Flow 3:

Average throughput: 74.43 Mbit/s

95th percentile per-packet one-way delay: 47.341 ms

Loss rate: 1.69%

### Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-09-19 06:25:56

End at: 2019-09-19 06:26:26

Local clock offset: -0.18 ms

Remote clock offset: 0.051 ms

# Below is generated by plot.py at 2019-09-19 08:31:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 523.43 Mbit/s

95th percentile per-packet one-way delay: 55.504 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 349.21 Mbit/s

95th percentile per-packet one-way delay: 57.169 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 236.89 Mbit/s

95th percentile per-packet one-way delay: 49.550 ms

Loss rate: 0.52%

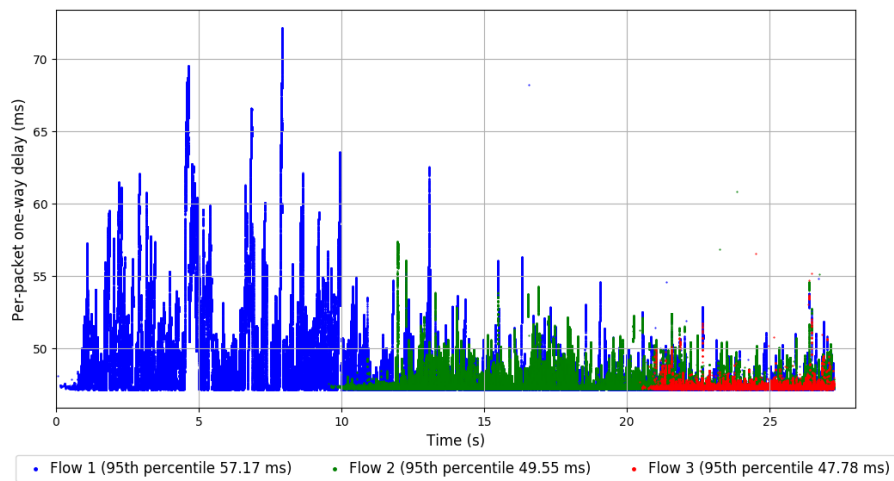
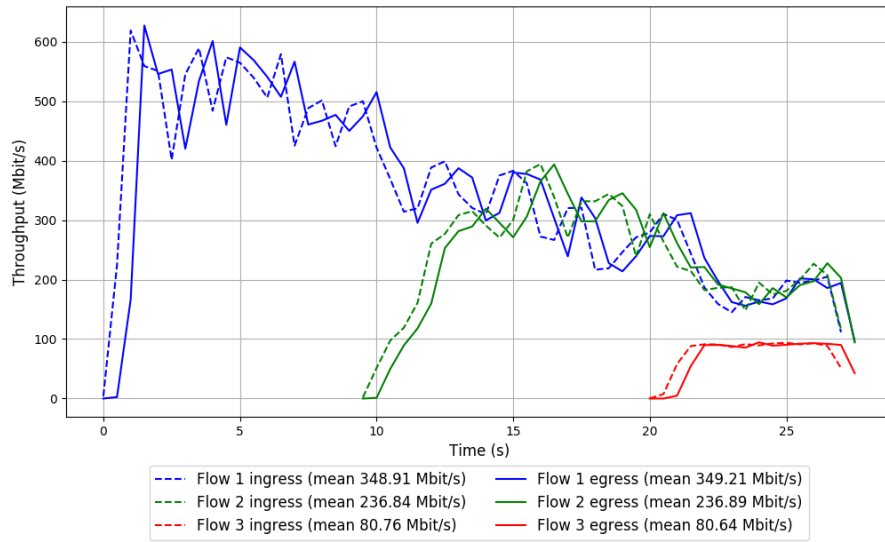
-- Flow 3:

Average throughput: 80.64 Mbit/s

95th percentile per-packet one-way delay: 47.782 ms

Loss rate: 1.52%

### Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-09-19 07:03:28

End at: 2019-09-19 07:03:58

Local clock offset: -0.18 ms

Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2019-09-19 08:32:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 518.17 Mbit/s

95th percentile per-packet one-way delay: 56.333 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 346.76 Mbit/s

95th percentile per-packet one-way delay: 57.599 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 244.02 Mbit/s

95th percentile per-packet one-way delay: 54.858 ms

Loss rate: 0.29%

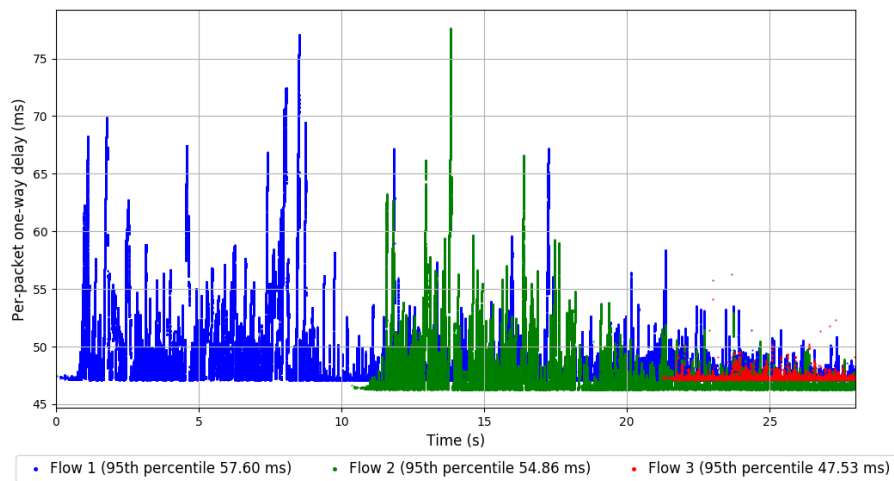
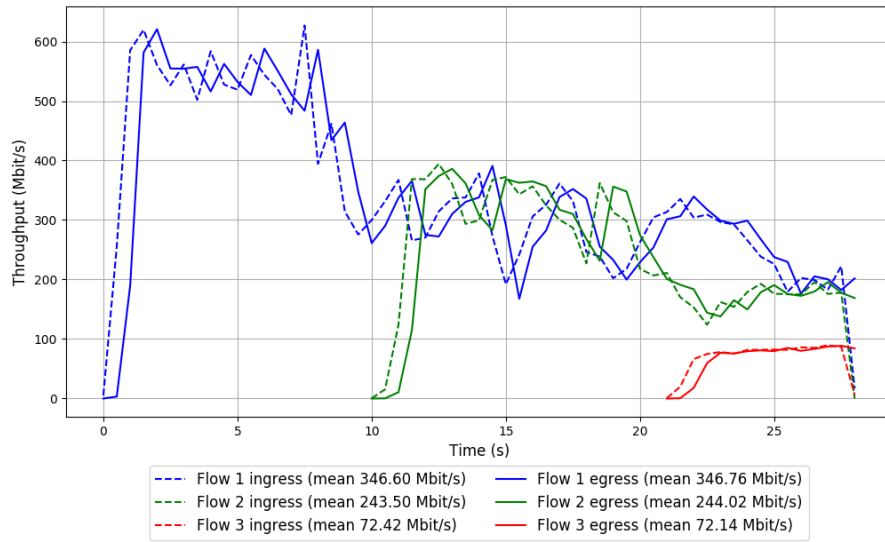
-- Flow 3:

Average throughput: 72.14 Mbit/s

95th percentile per-packet one-way delay: 47.534 ms

Loss rate: 1.72%

### Run 5: Report of Indigo-MusesC5 — Data Link





Run 1: Statistics of Indigo-MusesD

Start at: 2019-09-19 04:04:09  
End at: 2019-09-19 04:04:39  
Local clock offset: -0.203 ms  
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-09-19 08:32:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 326.93 Mbit/s  
95th percentile per-packet one-way delay: 48.710 ms  
Loss rate: 0.29%

-- Flow 1:

Average throughput: 234.98 Mbit/s  
95th percentile per-packet one-way delay: 48.910 ms  
Loss rate: 0.12%

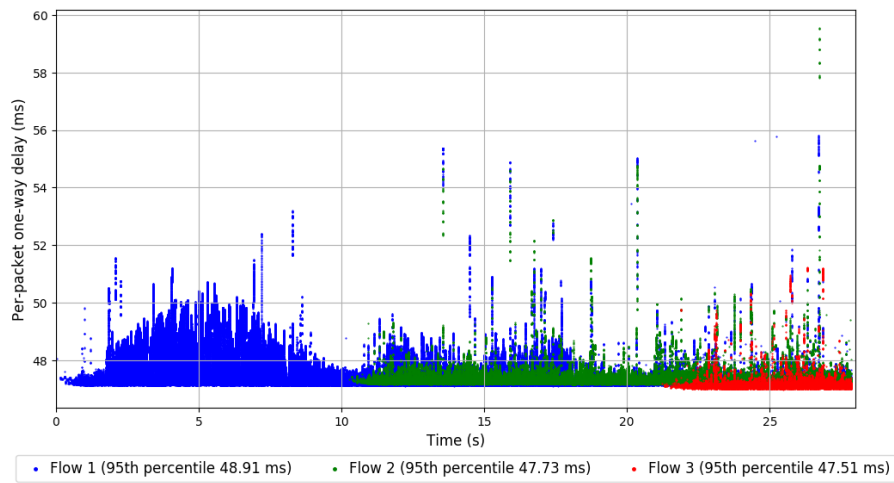
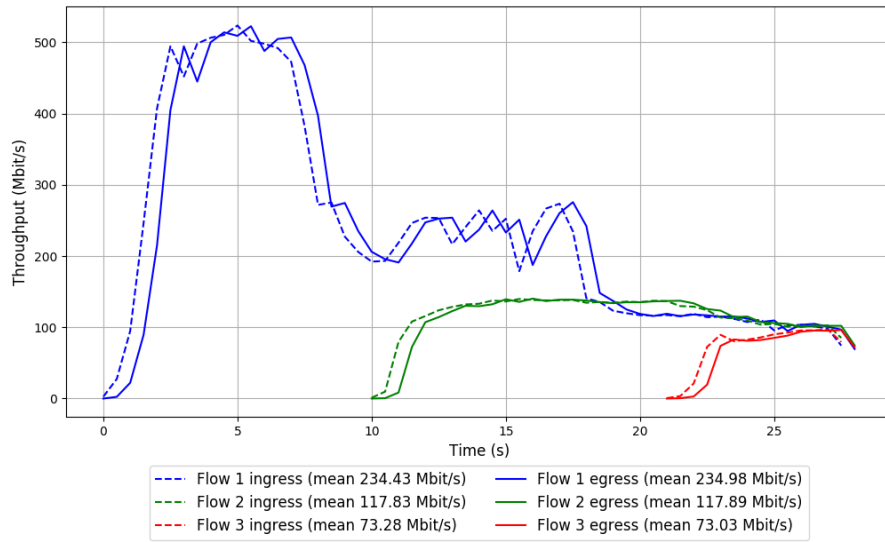
-- Flow 2:

Average throughput: 117.89 Mbit/s  
95th percentile per-packet one-way delay: 47.733 ms  
Loss rate: 0.48%

-- Flow 3:

Average throughput: 73.03 Mbit/s  
95th percentile per-packet one-way delay: 47.511 ms  
Loss rate: 1.75%

# Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-09-19 04:41:27

End at: 2019-09-19 04:41:57

Local clock offset: -0.527 ms

Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2019-09-19 08:32:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 361.49 Mbit/s

95th percentile per-packet one-way delay: 47.787 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 259.11 Mbit/s

95th percentile per-packet one-way delay: 47.952 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 117.48 Mbit/s

95th percentile per-packet one-way delay: 47.009 ms

Loss rate: 0.45%

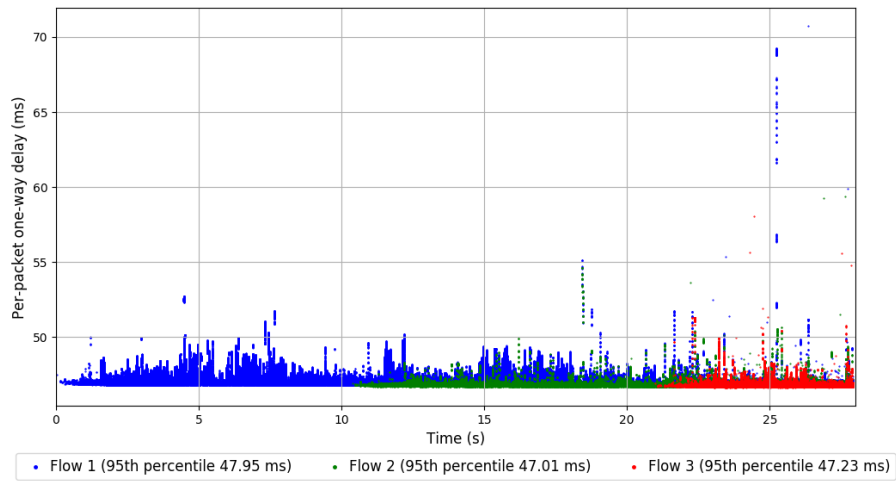
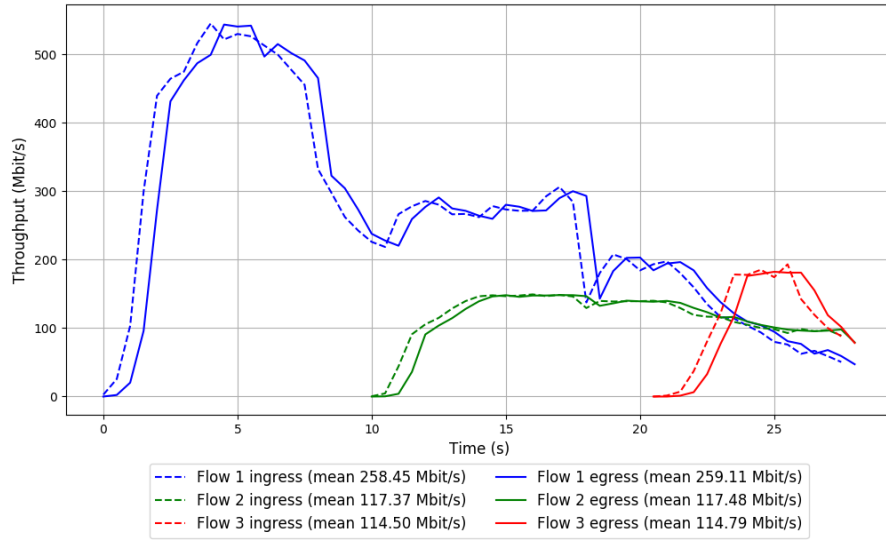
-- Flow 3:

Average throughput: 114.79 Mbit/s

95th percentile per-packet one-way delay: 47.232 ms

Loss rate: 1.19%

## Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-09-19 05:19:06  
End at: 2019-09-19 05:19:36  
Local clock offset: -0.131 ms  
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2019-09-19 08:32:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 405.73 Mbit/s  
95th percentile per-packet one-way delay: 49.527 ms  
Loss rate: 0.23%

-- Flow 1:

Average throughput: 276.24 Mbit/s  
95th percentile per-packet one-way delay: 50.596 ms  
Loss rate: 0.12%

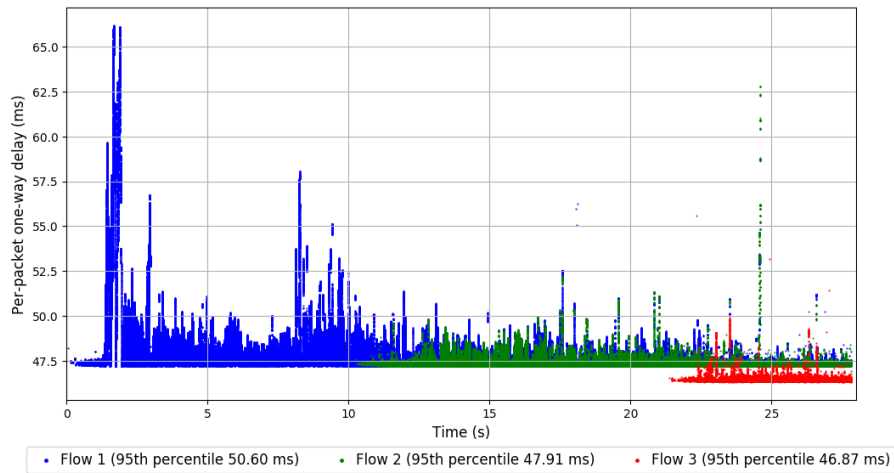
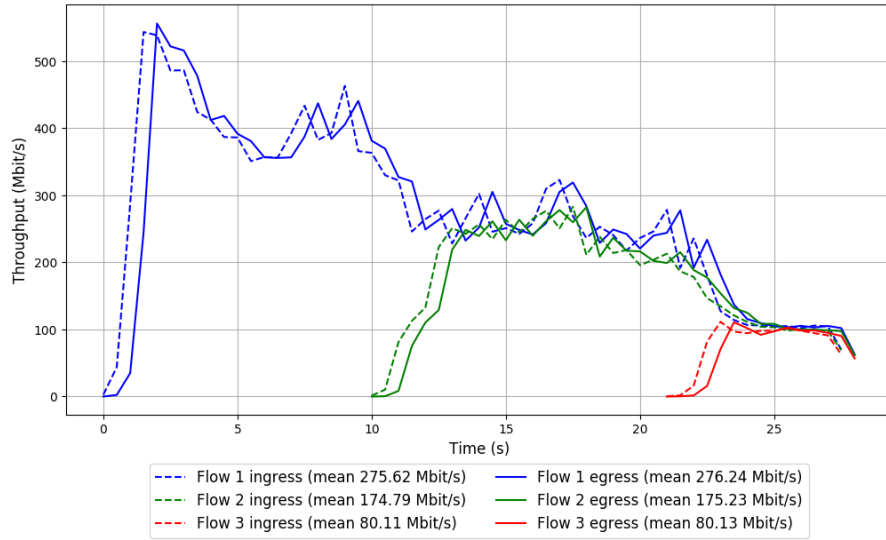
-- Flow 2:

Average throughput: 175.23 Mbit/s  
95th percentile per-packet one-way delay: 47.908 ms  
Loss rate: 0.29%

-- Flow 3:

Average throughput: 80.13 Mbit/s  
95th percentile per-packet one-way delay: 46.867 ms  
Loss rate: 1.44%

### Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-09-19 05:56:59

End at: 2019-09-19 05:57:29

Local clock offset: -0.177 ms

Remote clock offset: 0.033 ms

# Below is generated by plot.py at 2019-09-19 08:32:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 385.16 Mbit/s

95th percentile per-packet one-way delay: 49.116 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 265.58 Mbit/s

95th percentile per-packet one-way delay: 49.490 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 169.17 Mbit/s

95th percentile per-packet one-way delay: 47.949 ms

Loss rate: 0.21%

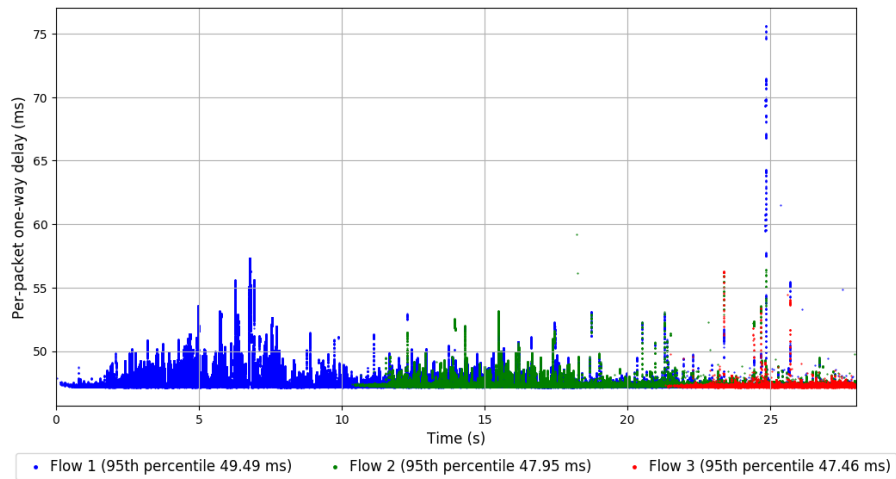
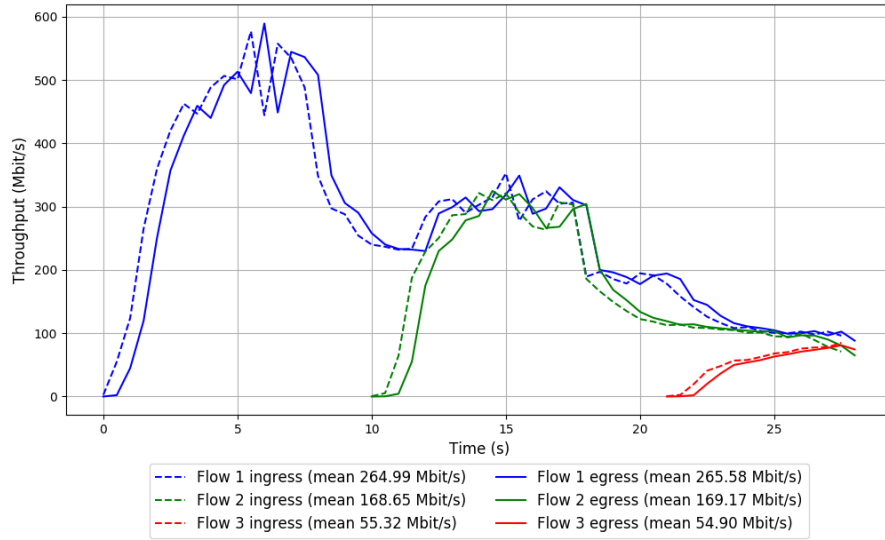
-- Flow 3:

Average throughput: 54.90 Mbit/s

95th percentile per-packet one-way delay: 47.456 ms

Loss rate: 2.13%

### Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-09-19 06:34:42

End at: 2019-09-19 06:35:12

Local clock offset: -0.185 ms

Remote clock offset: 0.079 ms

# Below is generated by plot.py at 2019-09-19 08:32:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 366.89 Mbit/s

95th percentile per-packet one-way delay: 49.368 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 257.76 Mbit/s

95th percentile per-packet one-way delay: 49.878 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 116.17 Mbit/s

95th percentile per-packet one-way delay: 47.606 ms

Loss rate: 0.41%

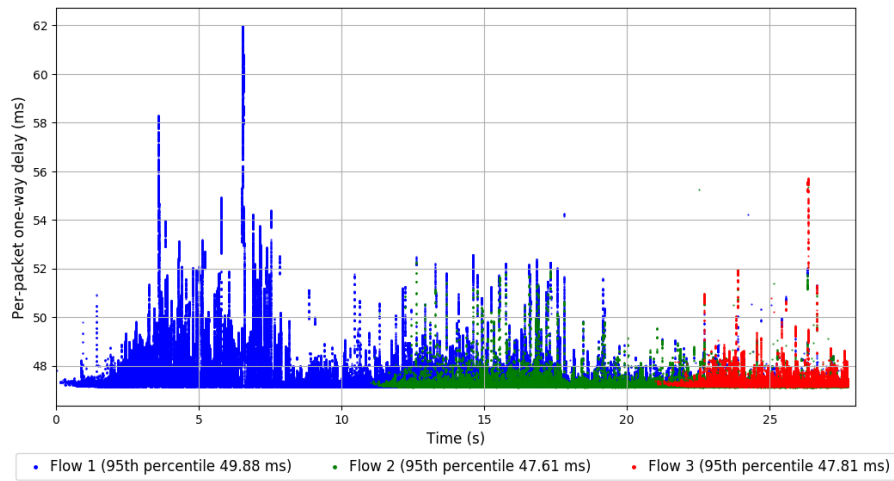
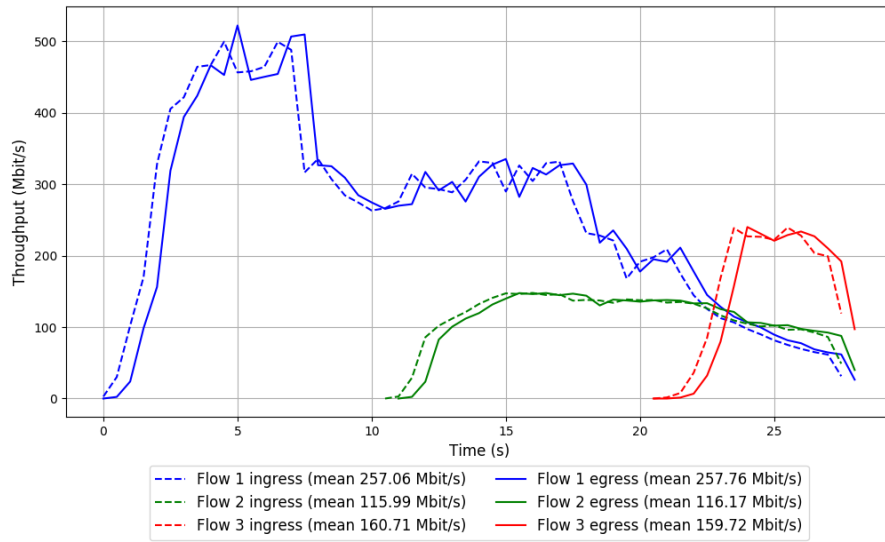
-- Flow 3:

Average throughput: 159.72 Mbit/s

95th percentile per-packet one-way delay: 47.815 ms

Loss rate: 2.03%

### Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MuseST

Start at: 2019-09-19 04:11:56  
End at: 2019-09-19 04:12:26  
Local clock offset: -0.163 ms  
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-09-19 08:36:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 494.86 Mbit/s  
95th percentile per-packet one-way delay: 49.145 ms  
Loss rate: 0.40%

-- Flow 1:

Average throughput: 315.23 Mbit/s  
95th percentile per-packet one-way delay: 49.348 ms  
Loss rate: 0.28%

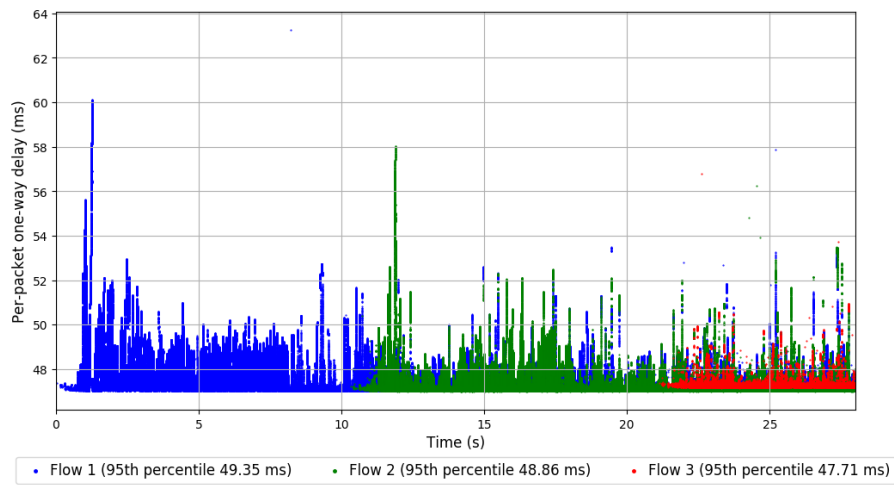
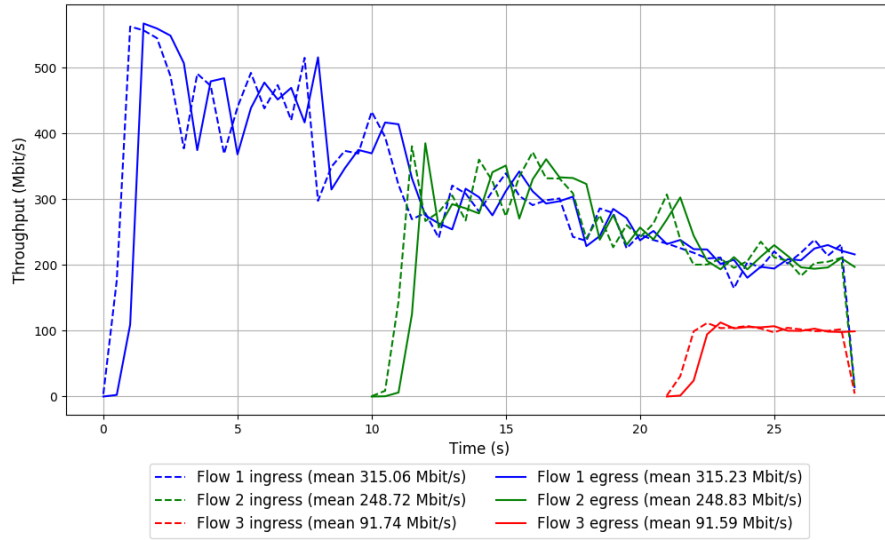
-- Flow 2:

Average throughput: 248.83 Mbit/s  
95th percentile per-packet one-way delay: 48.862 ms  
Loss rate: 0.48%

-- Flow 3:

Average throughput: 91.59 Mbit/s  
95th percentile per-packet one-way delay: 47.712 ms  
Loss rate: 1.55%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MuseST

Start at: 2019-09-19 04:49:15  
End at: 2019-09-19 04:49:45  
Local clock offset: -0.152 ms  
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2019-09-19 08:38:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 491.22 Mbit/s  
95th percentile per-packet one-way delay: 50.073 ms  
Loss rate: 0.38%

-- Flow 1:

Average throughput: 318.76 Mbit/s  
95th percentile per-packet one-way delay: 51.022 ms  
Loss rate: 0.25%

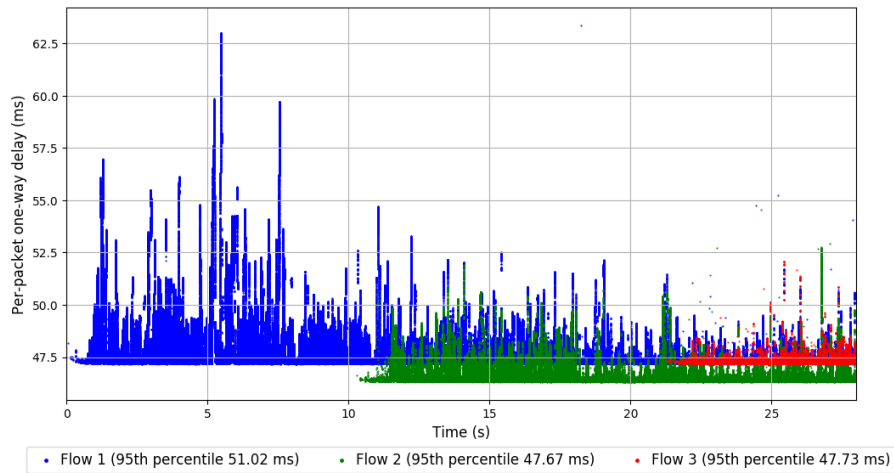
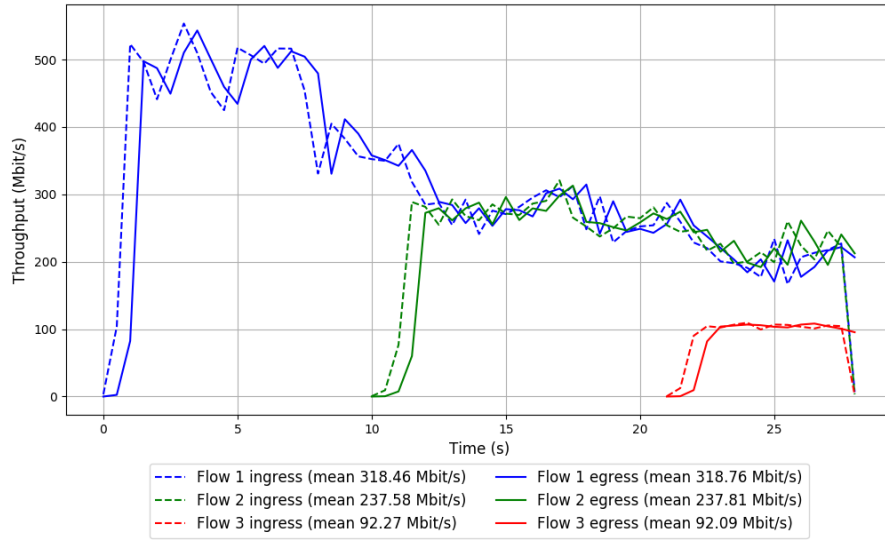
-- Flow 2:

Average throughput: 237.81 Mbit/s  
95th percentile per-packet one-way delay: 47.668 ms  
Loss rate: 0.47%

-- Flow 3:

Average throughput: 92.09 Mbit/s  
95th percentile per-packet one-way delay: 47.734 ms  
Loss rate: 1.66%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MuseST

Start at: 2019-09-19 05:27:00

End at: 2019-09-19 05:27:30

Local clock offset: -0.176 ms

Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2019-09-19 08:39:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 492.44 Mbit/s

95th percentile per-packet one-way delay: 51.269 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 323.58 Mbit/s

95th percentile per-packet one-way delay: 52.433 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 234.24 Mbit/s

95th percentile per-packet one-way delay: 48.152 ms

Loss rate: 0.59%

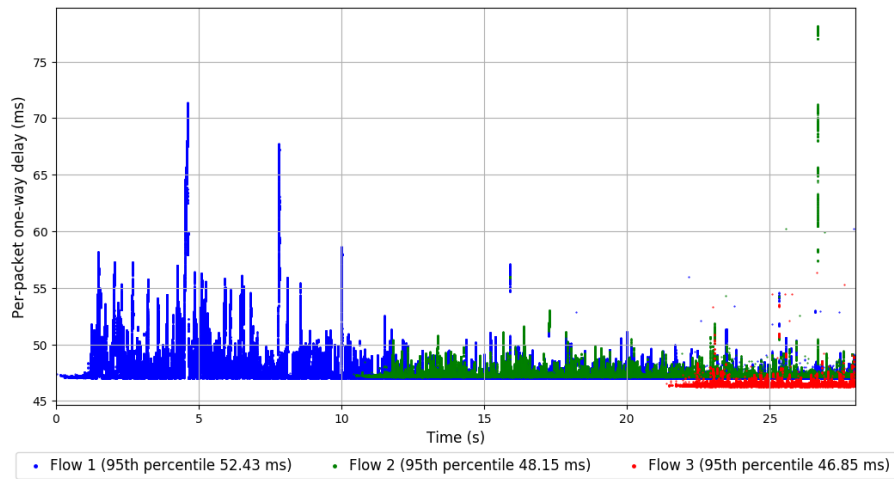
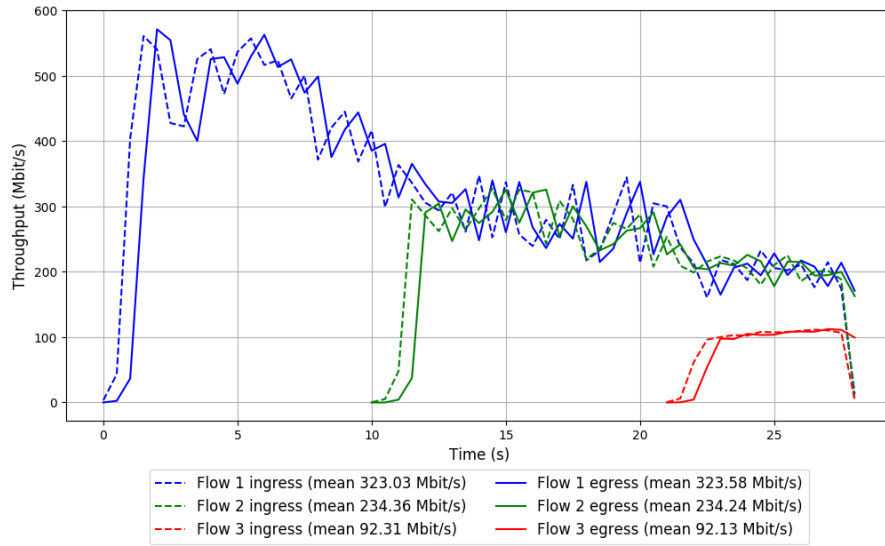
-- Flow 3:

Average throughput: 92.13 Mbit/s

95th percentile per-packet one-way delay: 46.853 ms

Loss rate: 1.71%

### Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MuseST

Start at: 2019-09-19 06:04:49

End at: 2019-09-19 06:05:19

Local clock offset: -0.172 ms

Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2019-09-19 08:39:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 473.16 Mbit/s

95th percentile per-packet one-way delay: 49.941 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 308.91 Mbit/s

95th percentile per-packet one-way delay: 51.181 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 229.99 Mbit/s

95th percentile per-packet one-way delay: 47.543 ms

Loss rate: 0.36%

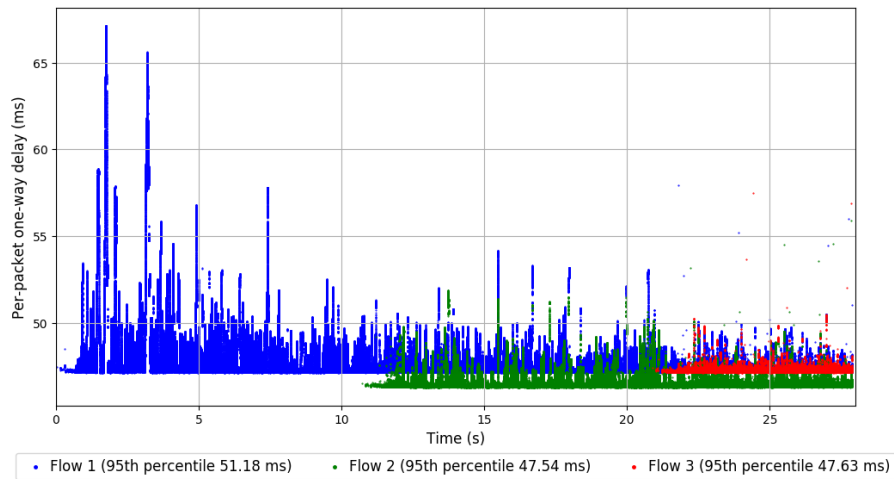
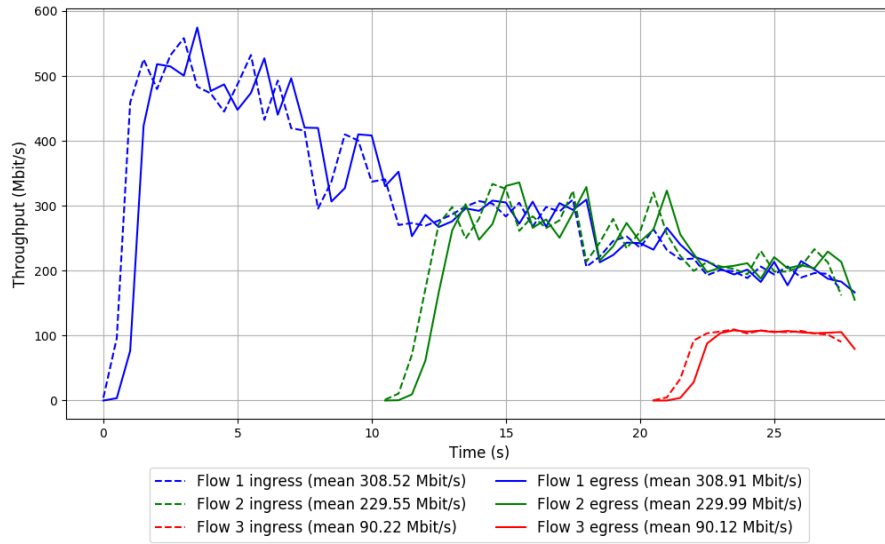
-- Flow 3:

Average throughput: 90.12 Mbit/s

95th percentile per-packet one-way delay: 47.635 ms

Loss rate: 1.47%

### Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MuseST

Start at: 2019-09-19 06:42:31

End at: 2019-09-19 06:43:01

Local clock offset: -0.141 ms

Remote clock offset: 0.065 ms

# Below is generated by plot.py at 2019-09-19 08:40:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 493.06 Mbit/s

95th percentile per-packet one-way delay: 51.144 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 327.87 Mbit/s

95th percentile per-packet one-way delay: 52.166 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 228.69 Mbit/s

95th percentile per-packet one-way delay: 48.316 ms

Loss rate: 0.44%

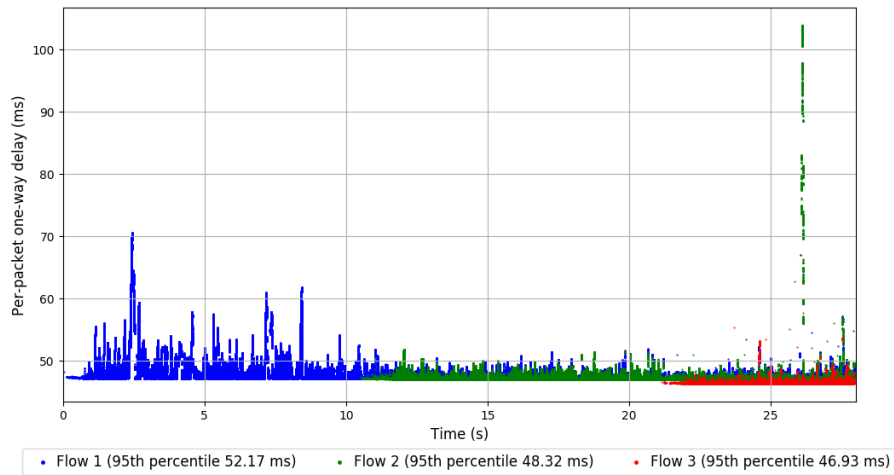
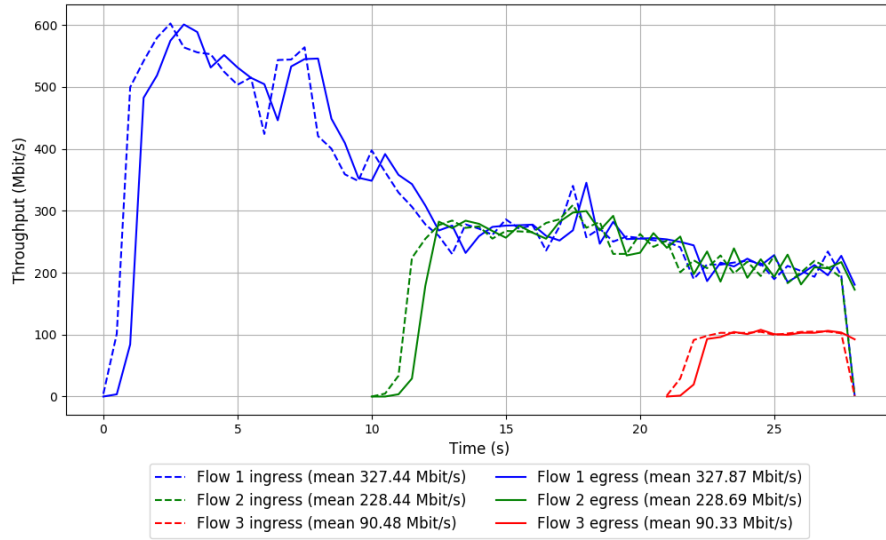
-- Flow 3:

Average throughput: 90.33 Mbit/s

95th percentile per-packet one-way delay: 46.929 ms

Loss rate: 1.67%

### Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-09-19 04:24:32  
End at: 2019-09-19 04:25:02  
Local clock offset: -0.171 ms  
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-09-19 08:40:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 63.59 Mbit/s  
95th percentile per-packet one-way delay: 47.934 ms  
Loss rate: 0.81%

-- Flow 1:

Average throughput: 41.09 Mbit/s  
95th percentile per-packet one-way delay: 48.002 ms  
Loss rate: 0.62%

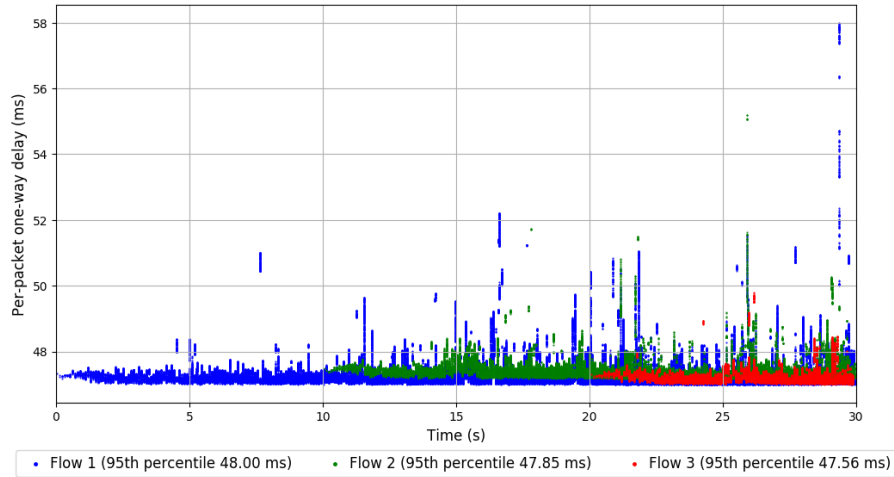
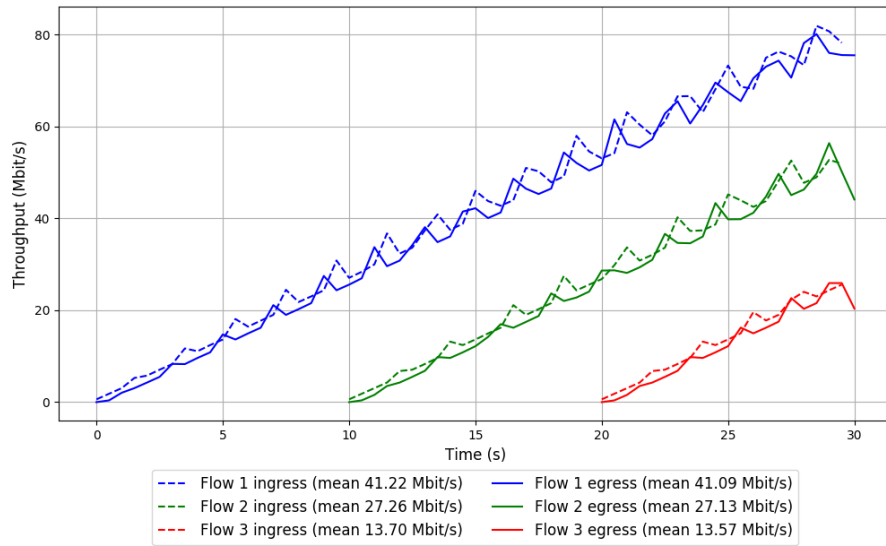
-- Flow 2:

Average throughput: 27.13 Mbit/s  
95th percentile per-packet one-way delay: 47.846 ms  
Loss rate: 0.95%

-- Flow 3:

Average throughput: 13.57 Mbit/s  
95th percentile per-packet one-way delay: 47.557 ms  
Loss rate: 1.92%

### Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-09-19 05:01:57

End at: 2019-09-19 05:02:27

Local clock offset: -0.18 ms

Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2019-09-19 08:40:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 63.33 Mbit/s

95th percentile per-packet one-way delay: 48.122 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 40.66 Mbit/s

95th percentile per-packet one-way delay: 48.106 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 27.30 Mbit/s

95th percentile per-packet one-way delay: 48.274 ms

Loss rate: 0.95%

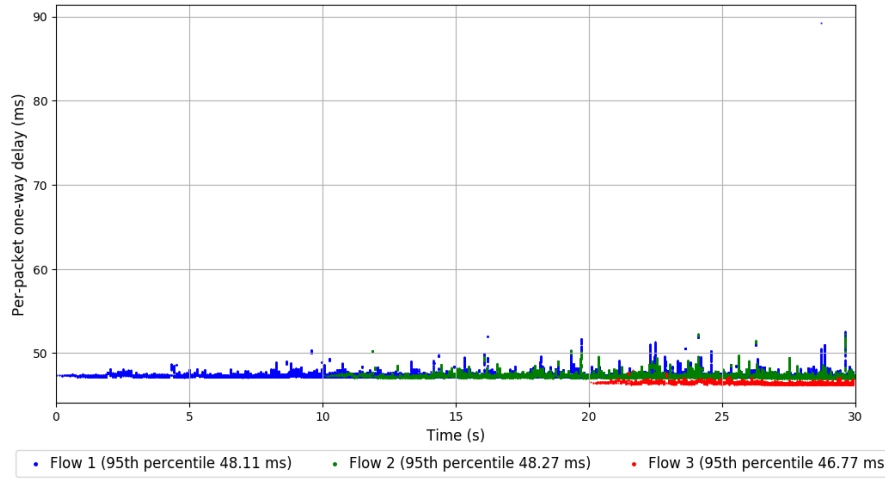
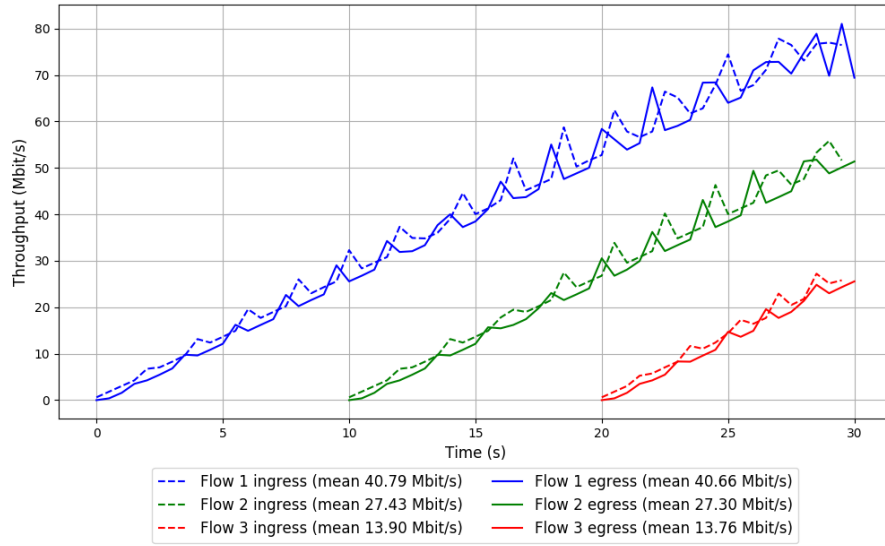
-- Flow 3:

Average throughput: 13.76 Mbit/s

95th percentile per-packet one-way delay: 46.775 ms

Loss rate: 1.90%

Run 2: Report of LEDBAT — Data Link





Run 3: Statistics of LEDBAT

Start at: 2019-09-19 05:39:49

End at: 2019-09-19 05:40:19

Local clock offset: -0.176 ms

Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2019-09-19 08:40:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 63.80 Mbit/s

95th percentile per-packet one-way delay: 48.171 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 41.03 Mbit/s

95th percentile per-packet one-way delay: 48.408 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 27.54 Mbit/s

95th percentile per-packet one-way delay: 47.629 ms

Loss rate: 0.94%

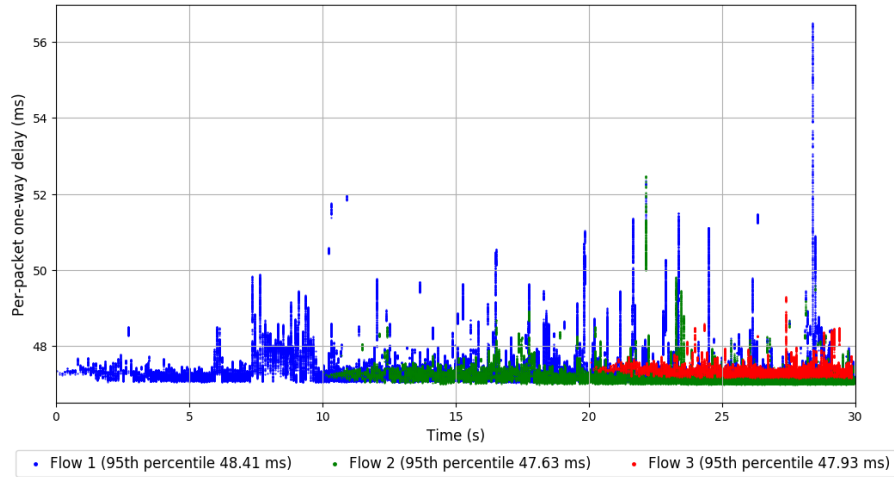
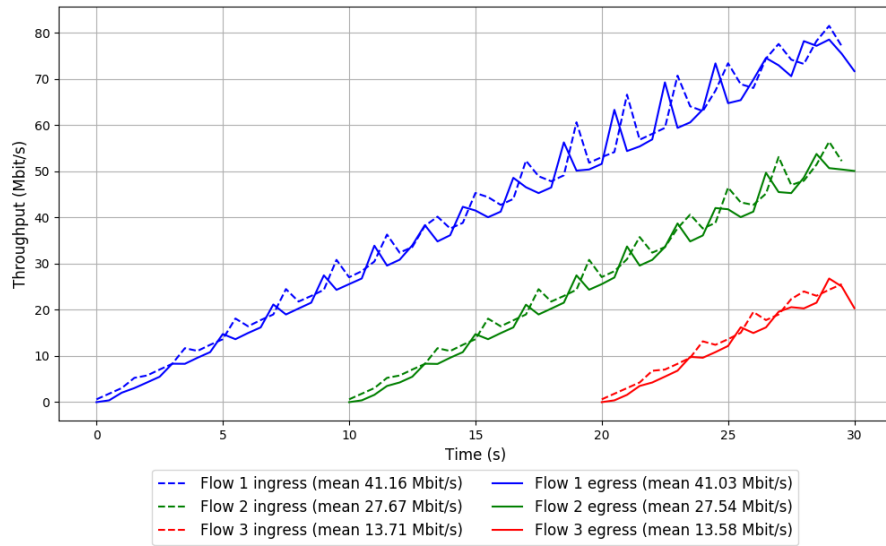
-- Flow 3:

Average throughput: 13.58 Mbit/s

95th percentile per-packet one-way delay: 47.927 ms

Loss rate: 1.92%

### Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-09-19 06:17:37

End at: 2019-09-19 06:18:07

Local clock offset: -0.181 ms

Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2019-09-19 08:40:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 63.72 Mbit/s

95th percentile per-packet one-way delay: 47.736 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 40.98 Mbit/s

95th percentile per-packet one-way delay: 47.808 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 27.52 Mbit/s

95th percentile per-packet one-way delay: 47.494 ms

Loss rate: 0.95%

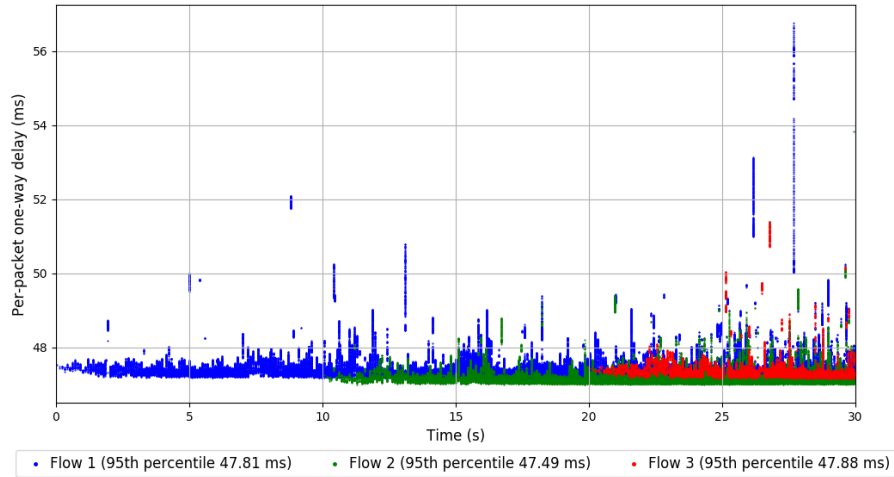
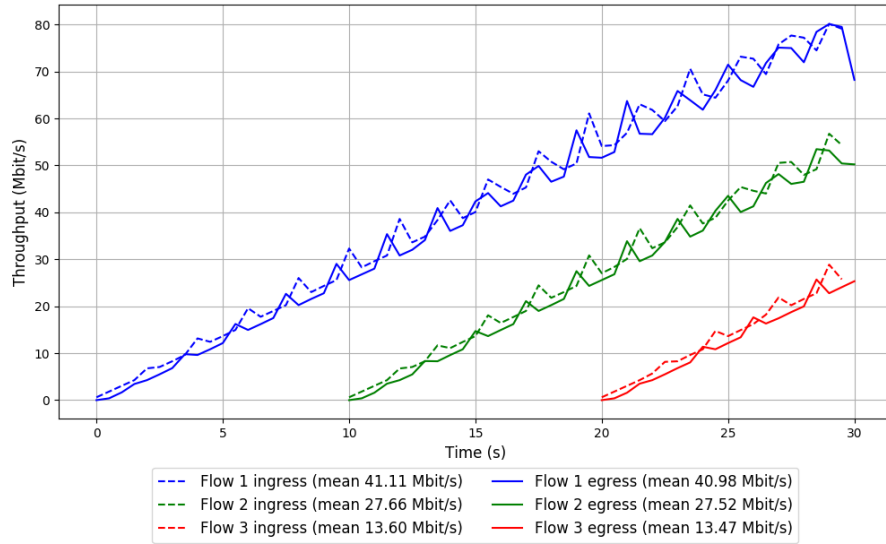
-- Flow 3:

Average throughput: 13.47 Mbit/s

95th percentile per-packet one-way delay: 47.879 ms

Loss rate: 1.92%

### Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-09-19 06:55:11

End at: 2019-09-19 06:55:41

Local clock offset: -0.17 ms

Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2019-09-19 08:40:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 63.45 Mbit/s

95th percentile per-packet one-way delay: 47.954 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 40.86 Mbit/s

95th percentile per-packet one-way delay: 47.927 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 27.39 Mbit/s

95th percentile per-packet one-way delay: 48.094 ms

Loss rate: 0.95%

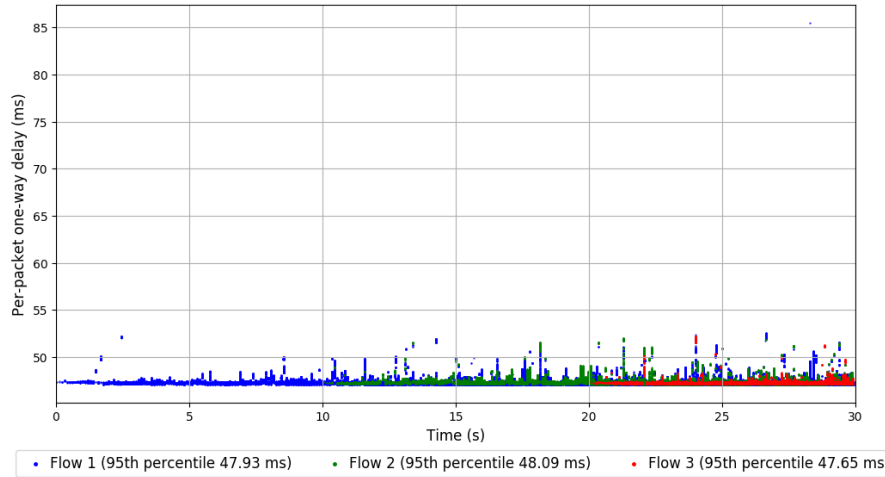
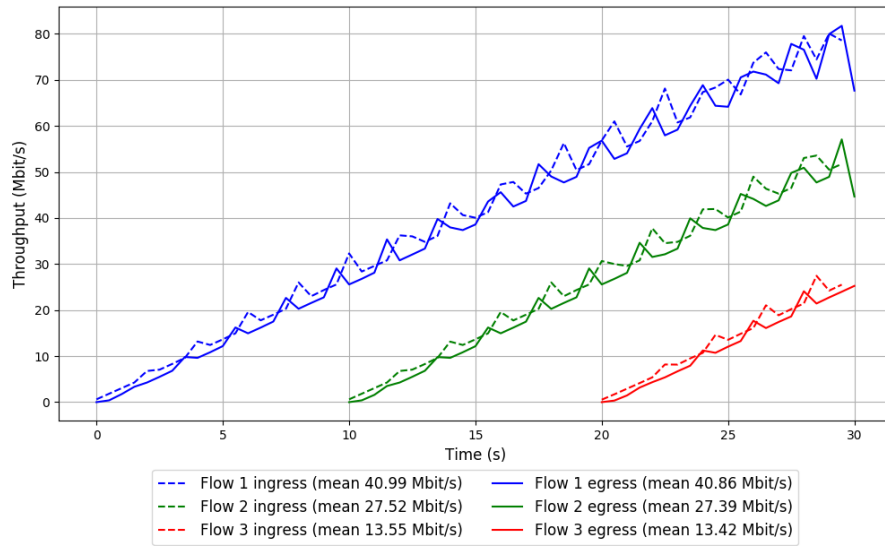
-- Flow 3:

Average throughput: 13.42 Mbit/s

95th percentile per-packet one-way delay: 47.646 ms

Loss rate: 1.94%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-09-19 04:21:21  
End at: 2019-09-19 04:21:51  
Local clock offset: -0.168 ms  
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-09-19 08:44:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 467.50 Mbit/s  
95th percentile per-packet one-way delay: 48.192 ms  
Loss rate: 0.32%

-- Flow 1:

Average throughput: 283.38 Mbit/s  
95th percentile per-packet one-way delay: 48.515 ms  
Loss rate: 0.15%

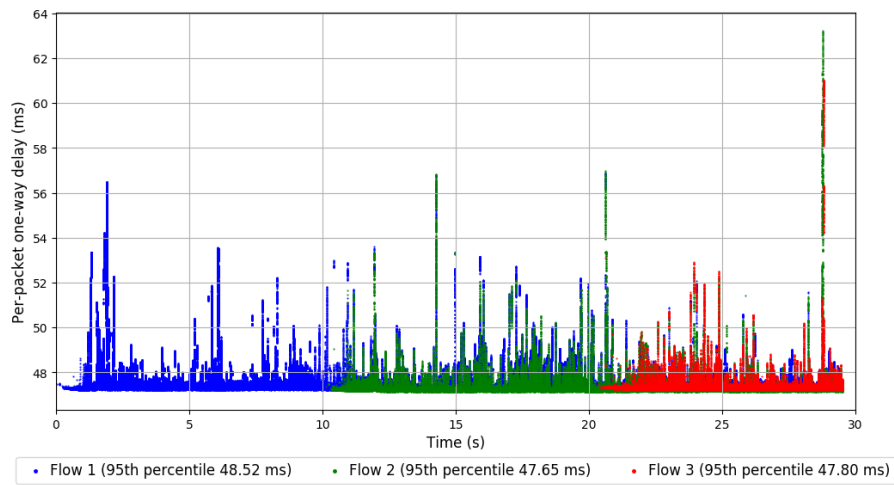
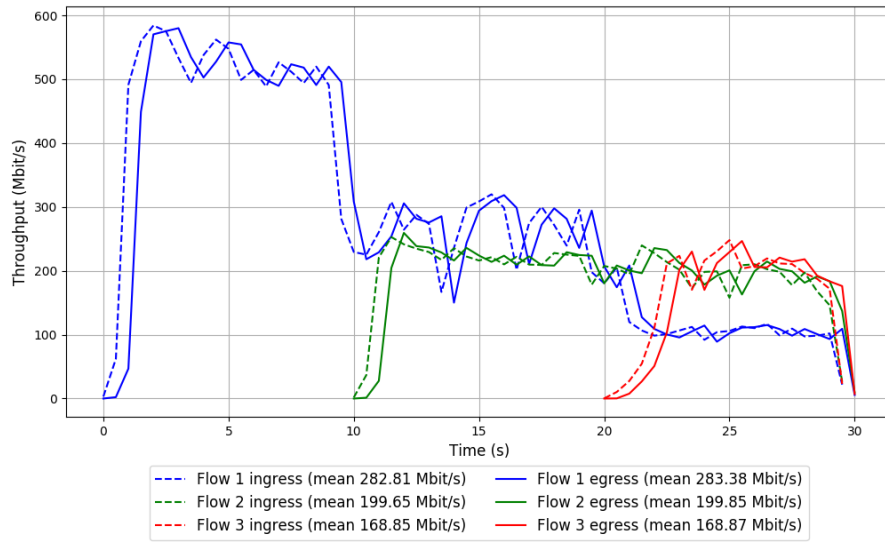
-- Flow 2:

Average throughput: 199.85 Mbit/s  
95th percentile per-packet one-way delay: 47.652 ms  
Loss rate: 0.40%

-- Flow 3:

Average throughput: 168.87 Mbit/s  
95th percentile per-packet one-way delay: 47.802 ms  
Loss rate: 1.01%

Run 1: Report of Muses\_DecisionTree — Data Link





Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-09-19 04:58:39

End at: 2019-09-19 04:59:09

Local clock offset: -0.146 ms

Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2019-09-19 08:46:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 486.00 Mbit/s

95th percentile per-packet one-way delay: 49.354 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 297.40 Mbit/s

95th percentile per-packet one-way delay: 51.092 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 221.42 Mbit/s

95th percentile per-packet one-way delay: 47.793 ms

Loss rate: 0.31%

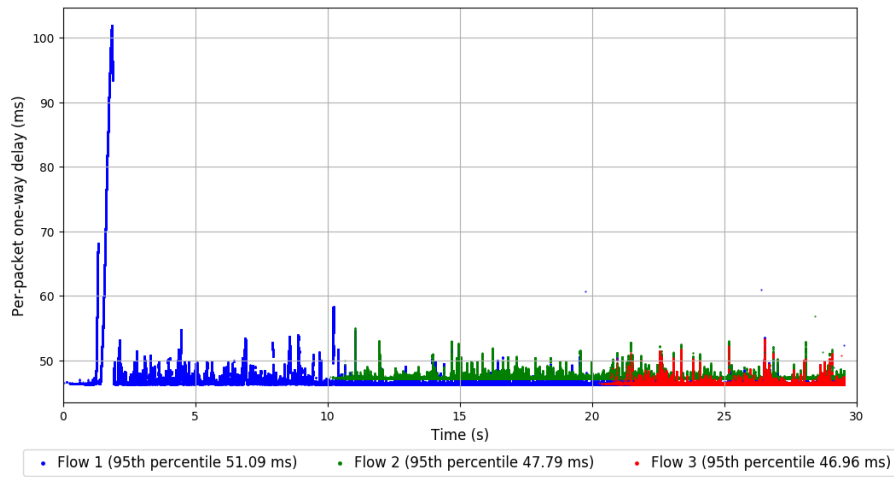
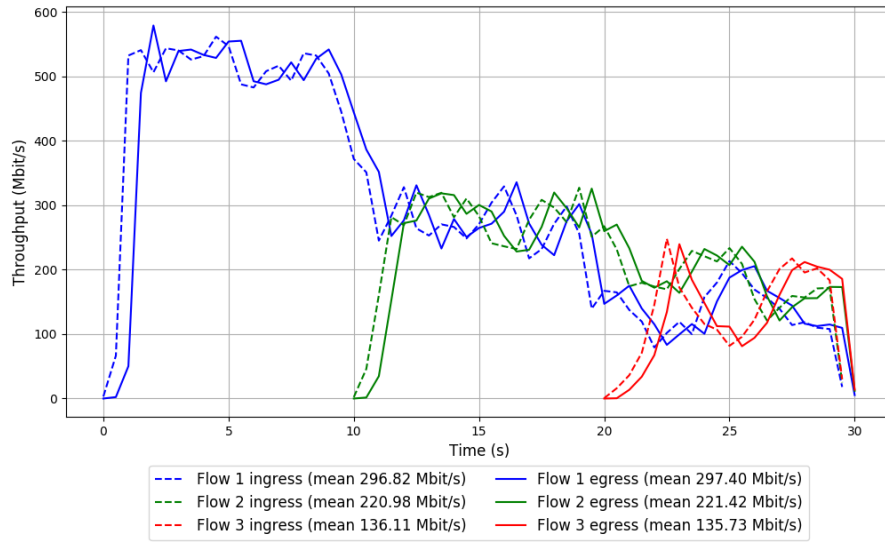
-- Flow 3:

Average throughput: 135.73 Mbit/s

95th percentile per-packet one-way delay: 46.957 ms

Loss rate: 1.34%

Run 2: Report of Muses\_DecisionTree — Data Link



Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-09-19 05:36:35  
End at: 2019-09-19 05:37:05  
Local clock offset: -0.212 ms  
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2019-09-19 08:46:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 482.10 Mbit/s  
95th percentile per-packet one-way delay: 49.536 ms  
Loss rate: 0.34%

-- Flow 1:

Average throughput: 303.92 Mbit/s  
95th percentile per-packet one-way delay: 50.616 ms  
Loss rate: 0.18%

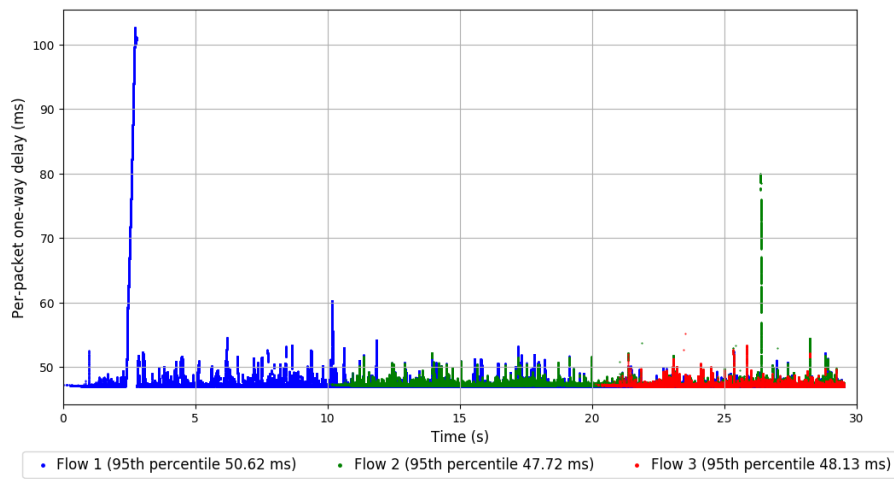
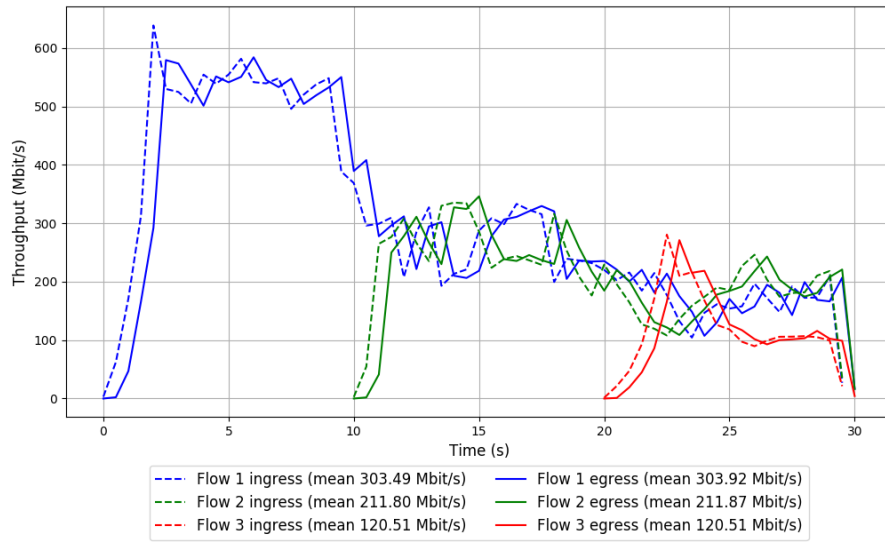
-- Flow 2:

Average throughput: 211.87 Mbit/s  
95th percentile per-packet one-way delay: 47.718 ms  
Loss rate: 0.48%

-- Flow 3:

Average throughput: 120.51 Mbit/s  
95th percentile per-packet one-way delay: 48.134 ms  
Loss rate: 1.08%

Run 3: Report of Muses\_DecisionTree — Data Link



Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-09-19 06:14:20

End at: 2019-09-19 06:14:50

Local clock offset: -0.201 ms

Remote clock offset: 0.067 ms

# Below is generated by plot.py at 2019-09-19 08:46:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 468.58 Mbit/s

95th percentile per-packet one-way delay: 48.114 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 303.97 Mbit/s

95th percentile per-packet one-way delay: 48.644 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 236.72 Mbit/s

95th percentile per-packet one-way delay: 47.479 ms

Loss rate: 0.28%

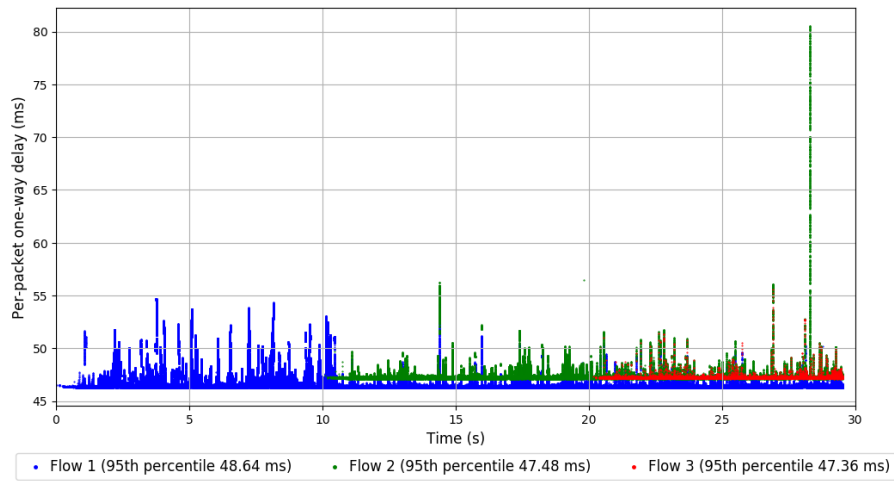
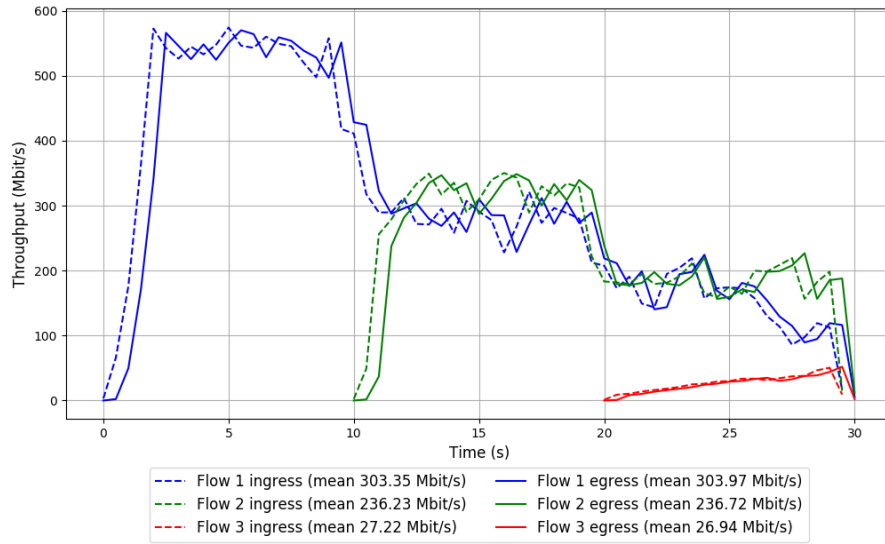
-- Flow 3:

Average throughput: 26.94 Mbit/s

95th percentile per-packet one-way delay: 47.361 ms

Loss rate: 2.09%

Run 4: Report of Muses\_DecisionTree — Data Link



Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-09-19 06:51:57

End at: 2019-09-19 06:52:27

Local clock offset: -0.154 ms

Remote clock offset: 0.059 ms

# Below is generated by plot.py at 2019-09-19 08:47:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 488.82 Mbit/s

95th percentile per-packet one-way delay: 48.621 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 302.44 Mbit/s

95th percentile per-packet one-way delay: 49.035 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 204.17 Mbit/s

95th percentile per-packet one-way delay: 47.724 ms

Loss rate: 0.23%

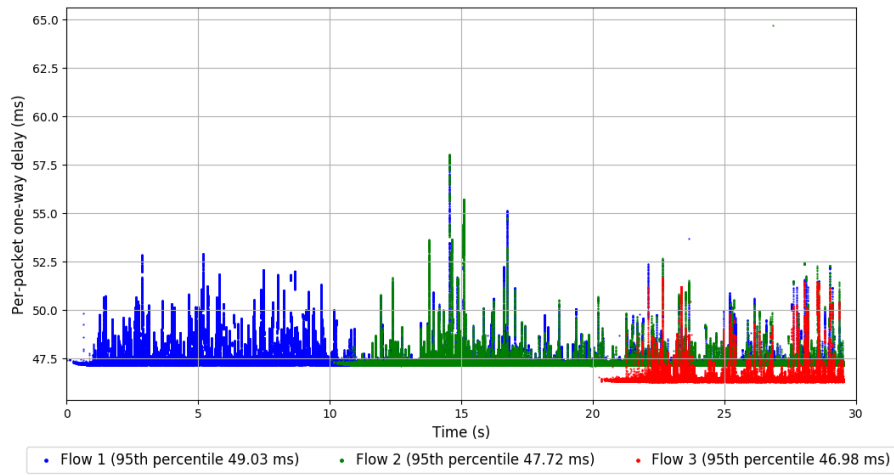
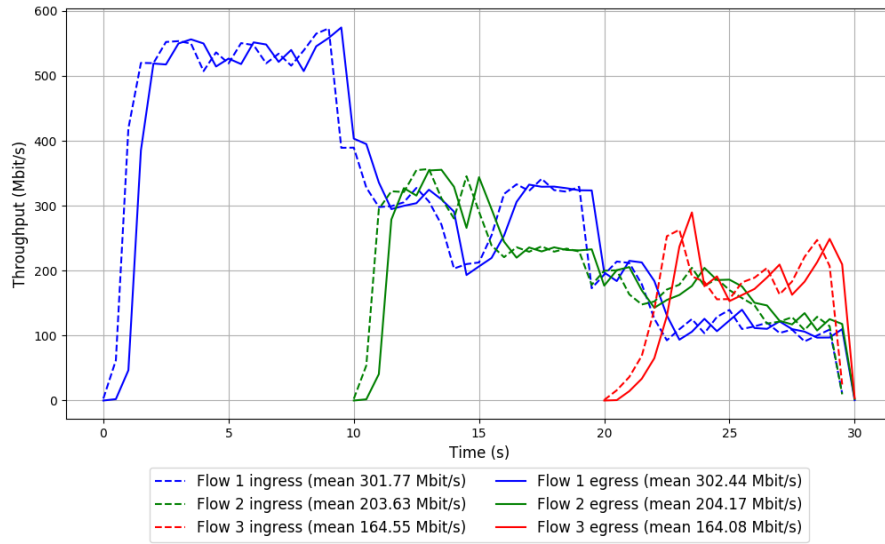
-- Flow 3:

Average throughput: 164.08 Mbit/s

95th percentile per-packet one-way delay: 46.975 ms

Loss rate: 1.34%

Run 5: Report of Muses\_DecisionTree — Data Link





Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-19 04:34:22  
End at: 2019-09-19 04:34:52  
Local clock offset: -0.164 ms  
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2019-09-19 08:48:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 445.65 Mbit/s  
95th percentile per-packet one-way delay: 65.128 ms  
Loss rate: 0.42%

-- Flow 1:

Average throughput: 258.82 Mbit/s  
95th percentile per-packet one-way delay: 71.115 ms  
Loss rate: 0.19%

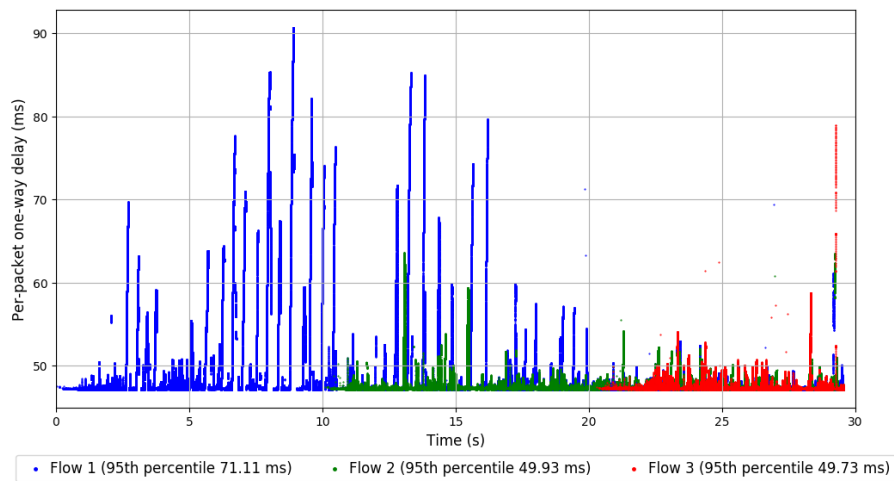
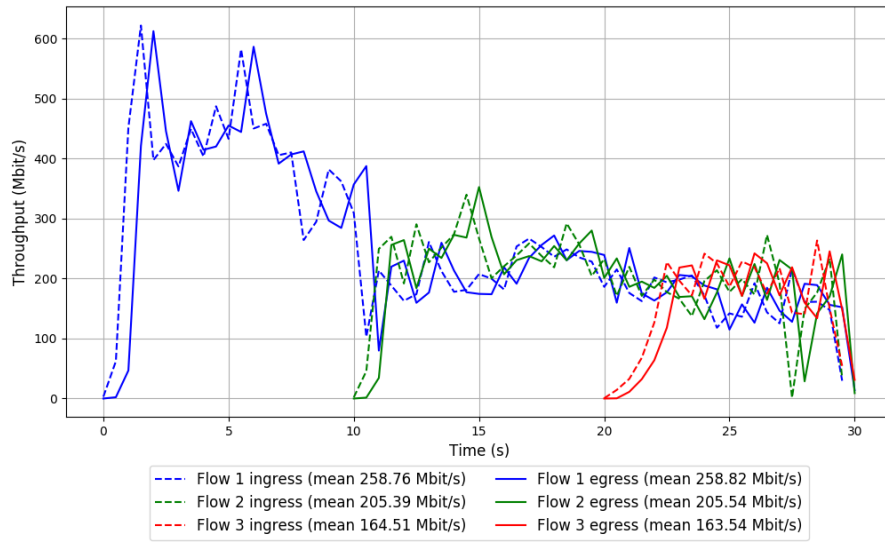
-- Flow 2:

Average throughput: 205.54 Mbit/s  
95th percentile per-packet one-way delay: 49.931 ms  
Loss rate: 0.41%

-- Flow 3:

Average throughput: 163.54 Mbit/s  
95th percentile per-packet one-way delay: 49.733 ms  
Loss rate: 1.61%

Run 1: Report of Muses\_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-19 05:11:55

End at: 2019-09-19 05:12:25

Local clock offset: -0.122 ms

Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2019-09-19 08:48:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 461.28 Mbit/s

95th percentile per-packet one-way delay: 63.284 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 283.46 Mbit/s

95th percentile per-packet one-way delay: 68.533 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 188.37 Mbit/s

95th percentile per-packet one-way delay: 49.931 ms

Loss rate: 0.36%

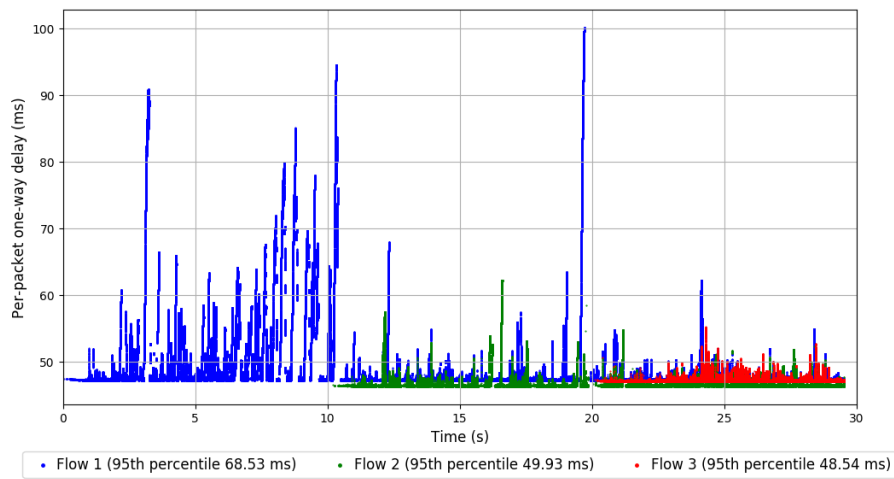
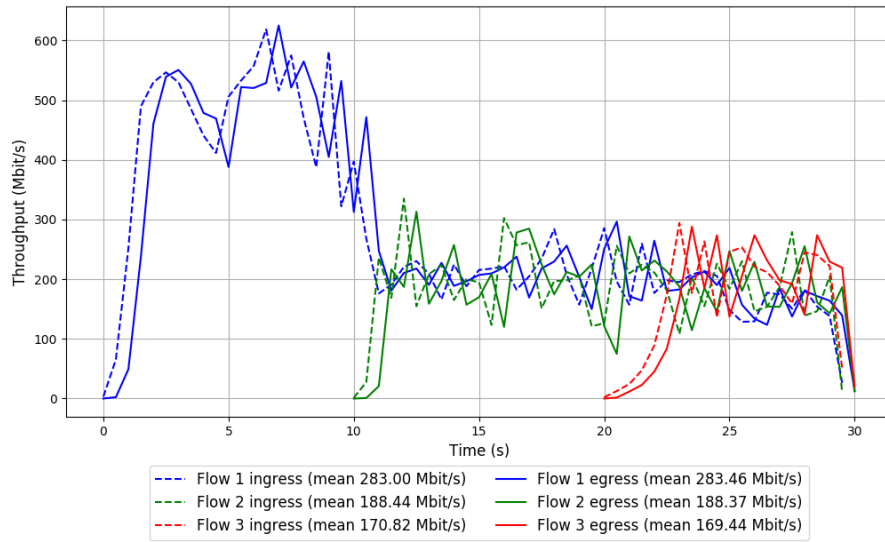
-- Flow 3:

Average throughput: 169.44 Mbit/s

95th percentile per-packet one-way delay: 48.538 ms

Loss rate: 1.81%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-19 05:49:50

End at: 2019-09-19 05:50:20

Local clock offset: -0.171 ms

Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2019-09-19 08:49:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 468.94 Mbit/s

95th percentile per-packet one-way delay: 58.070 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 284.33 Mbit/s

95th percentile per-packet one-way delay: 60.288 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 211.99 Mbit/s

95th percentile per-packet one-way delay: 48.130 ms

Loss rate: 0.12%

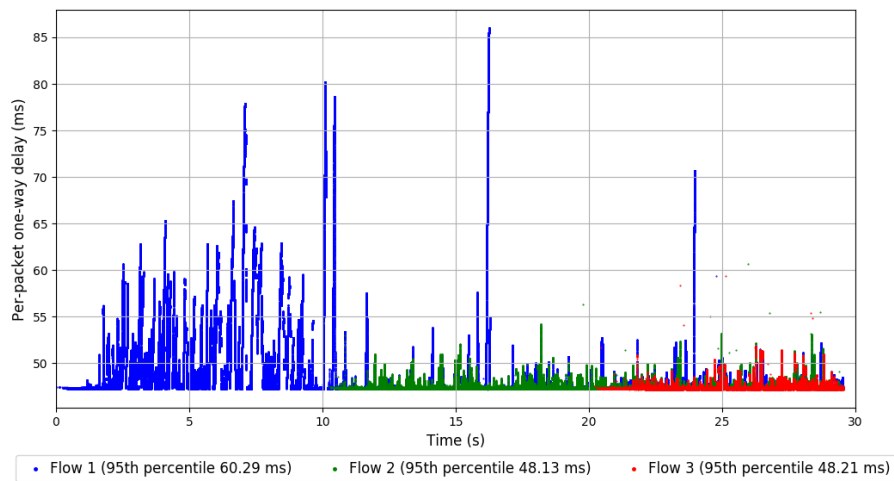
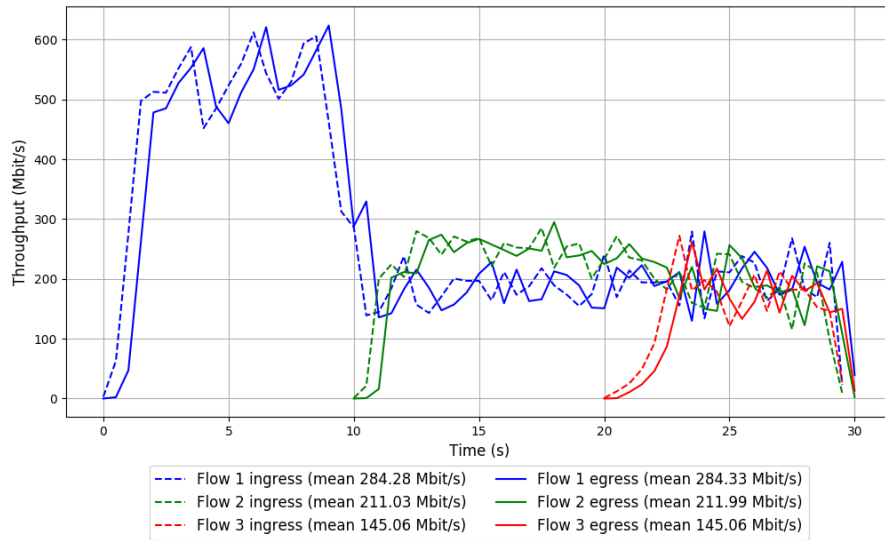
-- Flow 3:

Average throughput: 145.06 Mbit/s

95th percentile per-packet one-way delay: 48.214 ms

Loss rate: 1.03%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-19 06:27:32

End at: 2019-09-19 06:28:02

Local clock offset: -0.214 ms

Remote clock offset: 0.053 ms

# Below is generated by plot.py at 2019-09-19 08:51:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 399.64 Mbit/s

95th percentile per-packet one-way delay: 84.067 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 231.95 Mbit/s

95th percentile per-packet one-way delay: 89.313 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 201.66 Mbit/s

95th percentile per-packet one-way delay: 49.291 ms

Loss rate: 0.69%

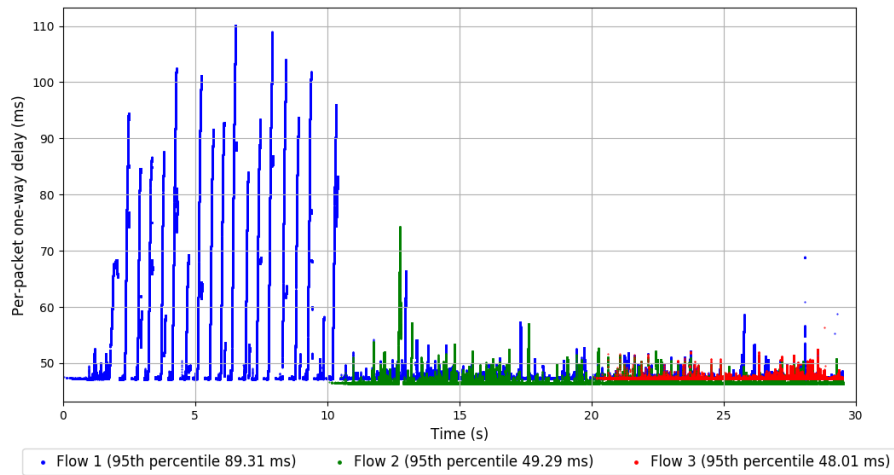
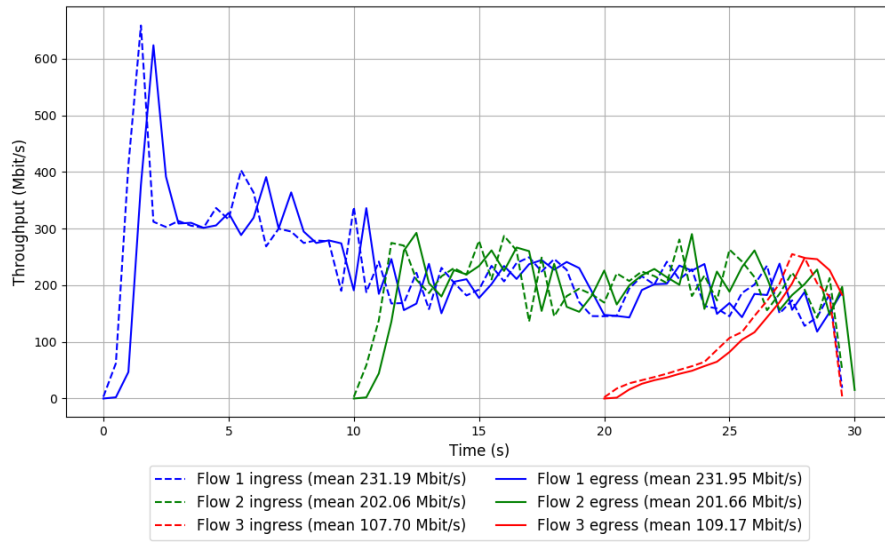
-- Flow 3:

Average throughput: 109.17 Mbit/s

95th percentile per-packet one-way delay: 48.012 ms

Loss rate: 0.15%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link





Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-19 07:05:04

End at: 2019-09-19 07:05:34

Local clock offset: -0.145 ms

Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2019-09-19 08:54:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 437.46 Mbit/s

95th percentile per-packet one-way delay: 54.196 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 239.97 Mbit/s

95th percentile per-packet one-way delay: 54.713 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 209.23 Mbit/s

95th percentile per-packet one-way delay: 56.822 ms

Loss rate: 0.47%

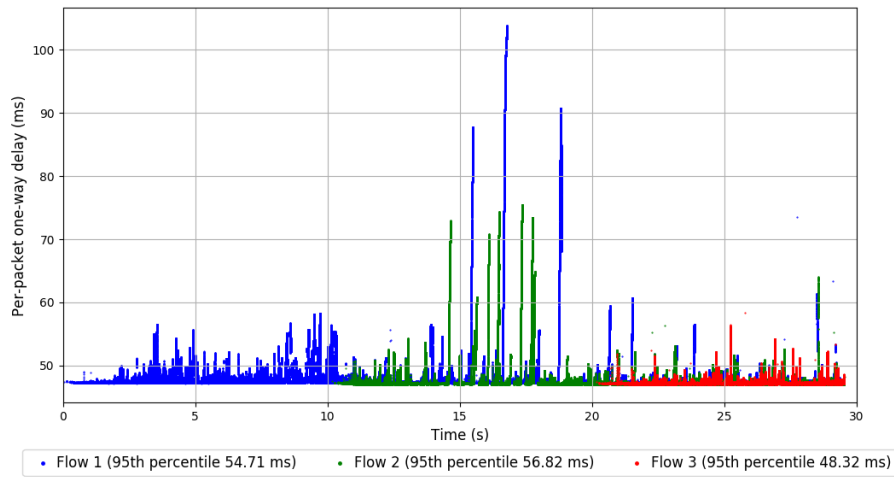
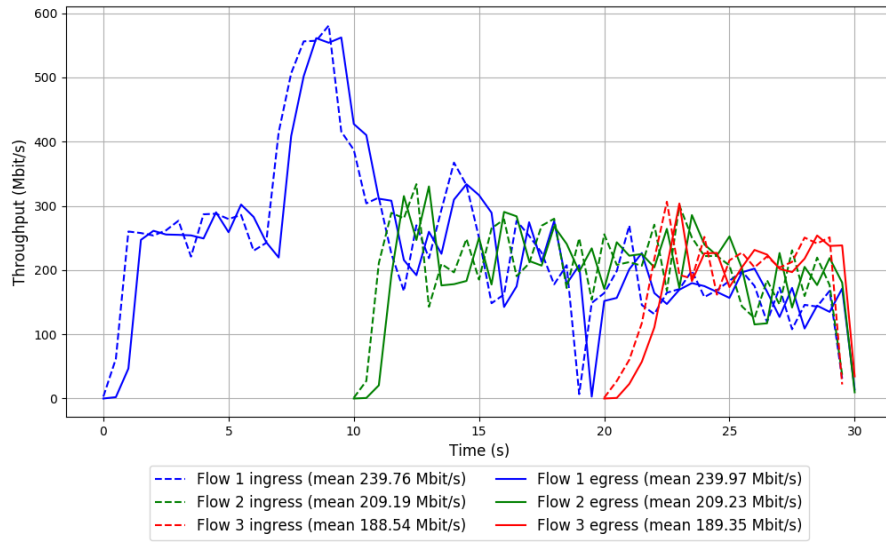
-- Flow 3:

Average throughput: 189.35 Mbit/s

95th percentile per-packet one-way delay: 48.318 ms

Loss rate: 0.61%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-19 04:13:30  
End at: 2019-09-19 04:14:00  
Local clock offset: -0.542 ms  
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-09-19 08:55:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 478.87 Mbit/s  
95th percentile per-packet one-way delay: 48.030 ms  
Loss rate: 0.35%

-- Flow 1:

Average throughput: 301.87 Mbit/s  
95th percentile per-packet one-way delay: 48.401 ms  
Loss rate: 0.25%

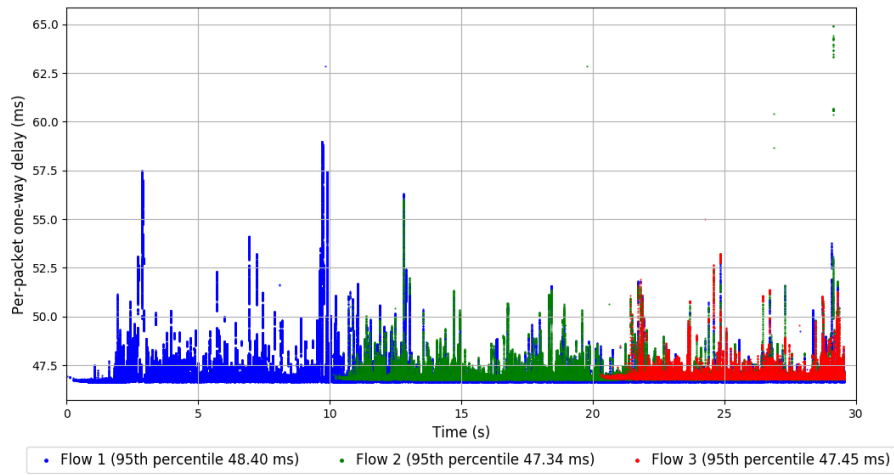
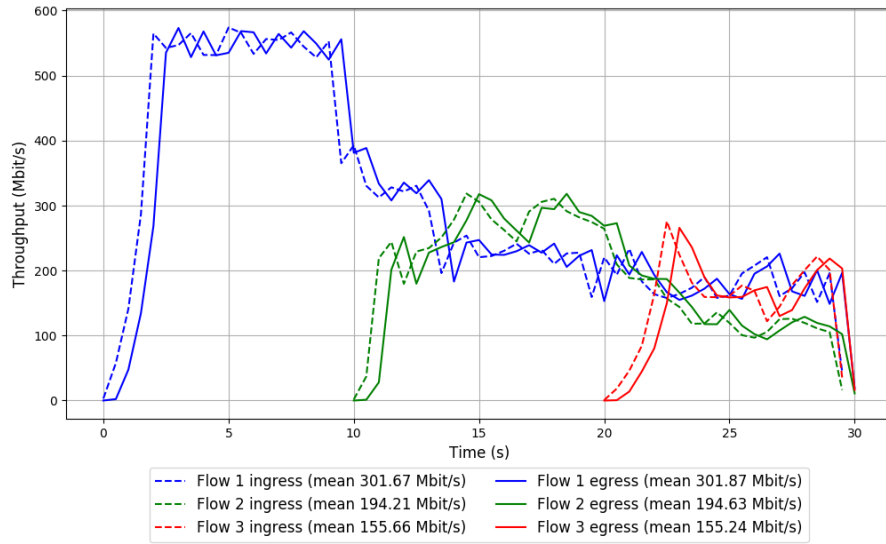
-- Flow 2:

Average throughput: 194.63 Mbit/s  
95th percentile per-packet one-way delay: 47.344 ms  
Loss rate: 0.23%

-- Flow 3:

Average throughput: 155.24 Mbit/s  
95th percentile per-packet one-way delay: 47.450 ms  
Loss rate: 1.27%

Run 1: Report of Muses\_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-19 04:50:50

End at: 2019-09-19 04:51:20

Local clock offset: -0.146 ms

Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2019-09-19 08:55:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 467.88 Mbit/s

95th percentile per-packet one-way delay: 50.017 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 313.86 Mbit/s

95th percentile per-packet one-way delay: 51.293 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 171.40 Mbit/s

95th percentile per-packet one-way delay: 47.580 ms

Loss rate: 0.40%

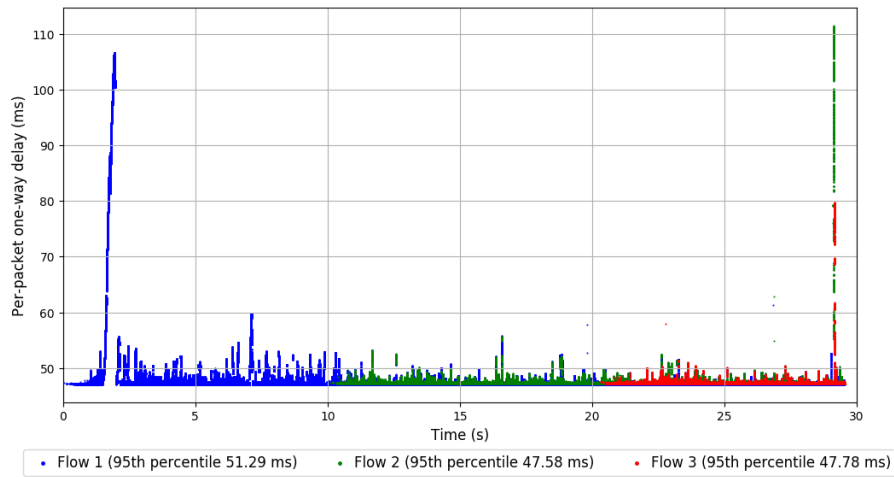
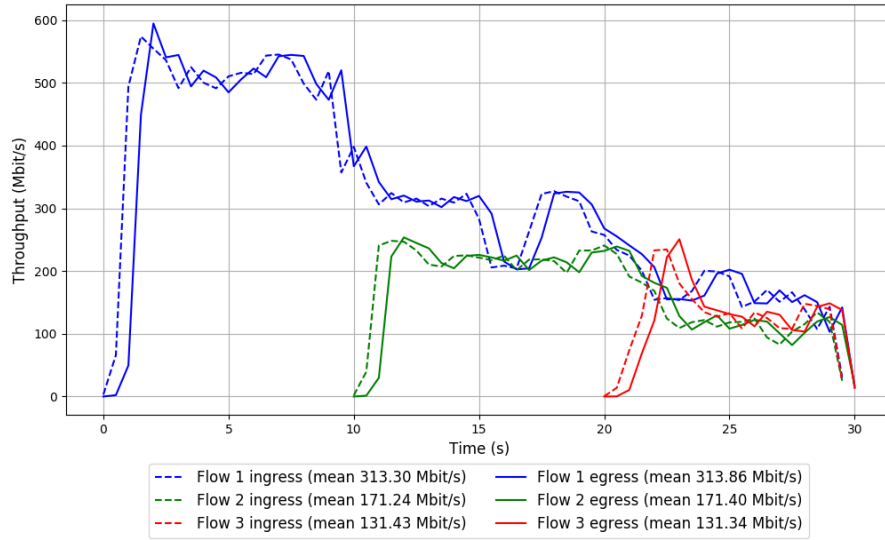
-- Flow 3:

Average throughput: 131.34 Mbit/s

95th percentile per-packet one-way delay: 47.779 ms

Loss rate: 1.10%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link

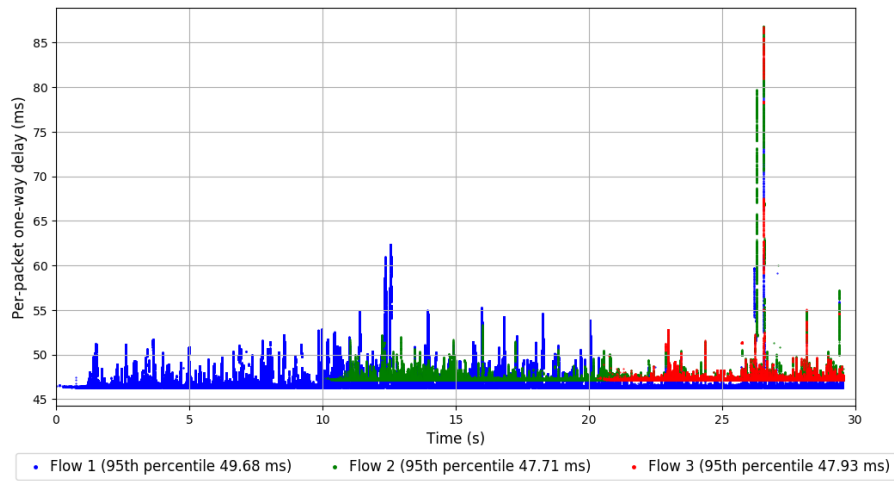
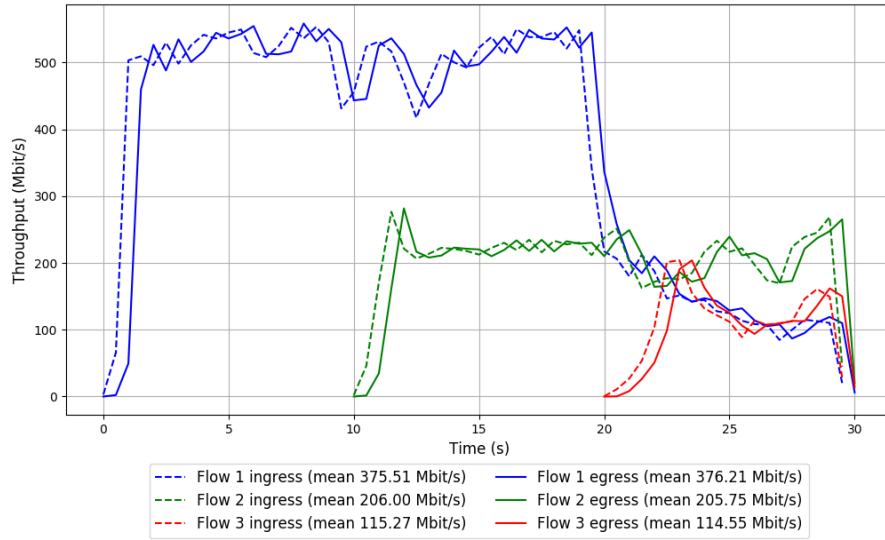


Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-19 05:28:35  
End at: 2019-09-19 05:29:05  
Local clock offset: -0.17 ms  
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2019-09-19 08:57:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 547.52 Mbit/s  
95th percentile per-packet one-way delay: 49.208 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 376.21 Mbit/s  
95th percentile per-packet one-way delay: 49.680 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 205.75 Mbit/s  
95th percentile per-packet one-way delay: 47.711 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 114.55 Mbit/s  
95th percentile per-packet one-way delay: 47.933 ms  
Loss rate: 1.47%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link





Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-19 06:06:23

End at: 2019-09-19 06:06:53

Local clock offset: -0.182 ms

Remote clock offset: 0.073 ms

# Below is generated by plot.py at 2019-09-19 08:57:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 474.28 Mbit/s

95th percentile per-packet one-way delay: 48.474 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 296.56 Mbit/s

95th percentile per-packet one-way delay: 49.180 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 193.95 Mbit/s

95th percentile per-packet one-way delay: 46.567 ms

Loss rate: 0.44%

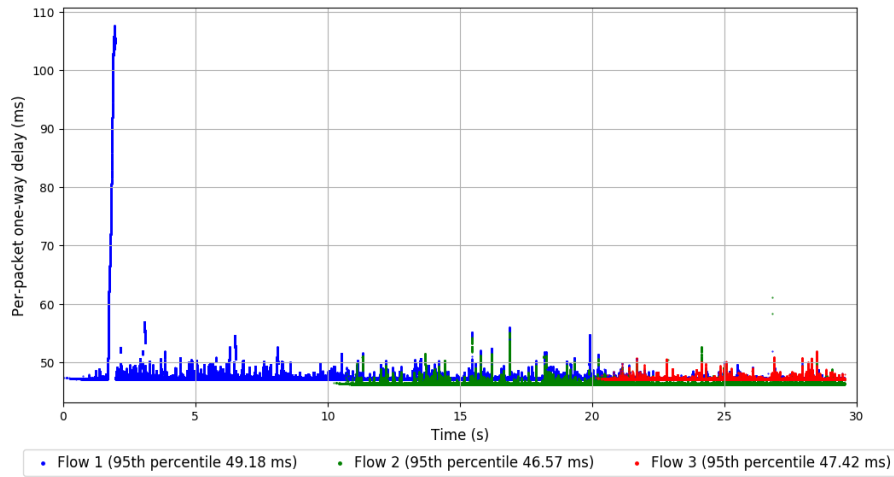
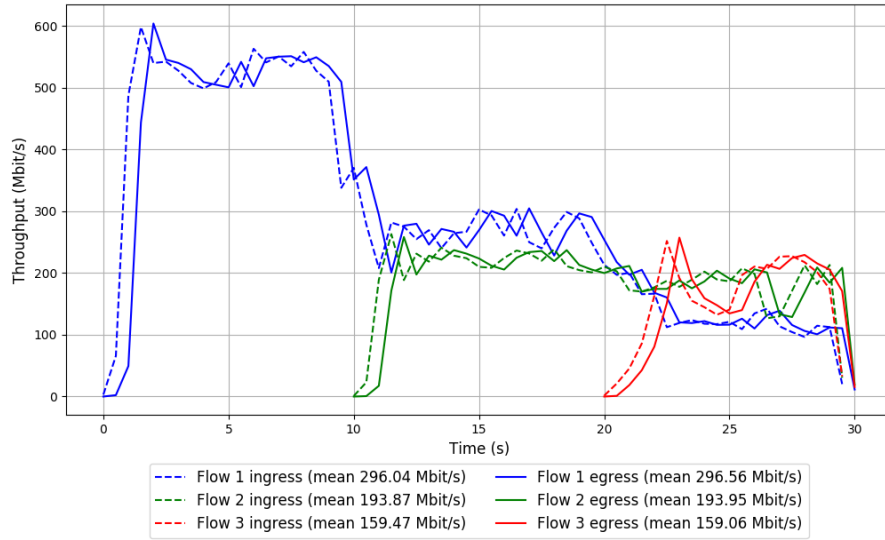
-- Flow 3:

Average throughput: 159.06 Mbit/s

95th percentile per-packet one-way delay: 47.420 ms

Loss rate: 1.25%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-19 06:44:05

End at: 2019-09-19 06:44:35

Local clock offset: 0.214 ms

Remote clock offset: 0.085 ms

# Below is generated by plot.py at 2019-09-19 08:57:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 465.86 Mbit/s

95th percentile per-packet one-way delay: 48.413 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 291.92 Mbit/s

95th percentile per-packet one-way delay: 48.673 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 183.73 Mbit/s

95th percentile per-packet one-way delay: 48.259 ms

Loss rate: 0.31%

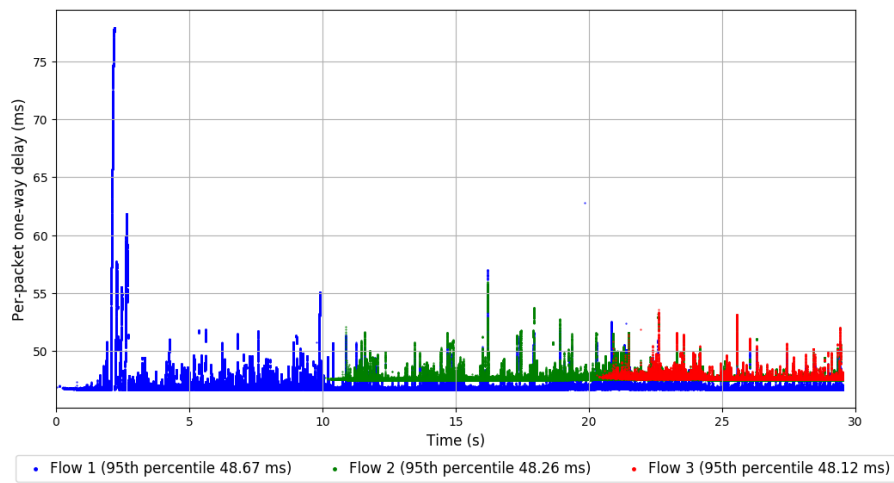
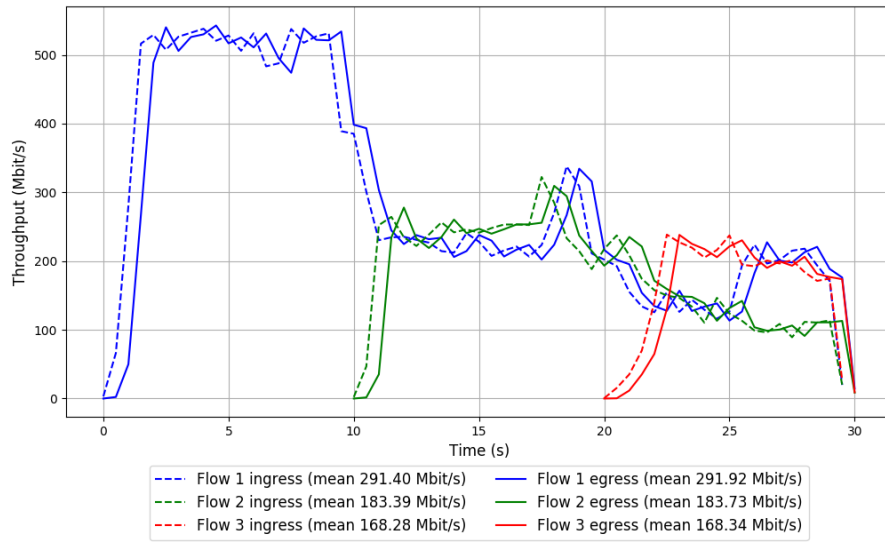
-- Flow 3:

Average throughput: 168.34 Mbit/s

95th percentile per-packet one-way delay: 48.119 ms

Loss rate: 1.01%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-09-19 04:19:33  
End at: 2019-09-19 04:20:03  
Local clock offset: -0.192 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-09-19 09:11:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 580.01 Mbit/s  
95th percentile per-packet one-way delay: 74.205 ms  
Loss rate: 0.82%

-- Flow 1:

Average throughput: 303.12 Mbit/s  
95th percentile per-packet one-way delay: 92.627 ms  
Loss rate: 0.93%

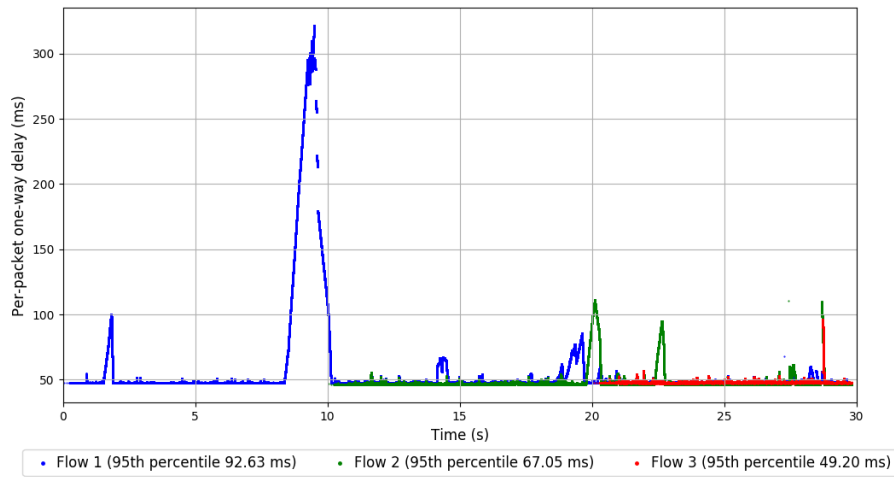
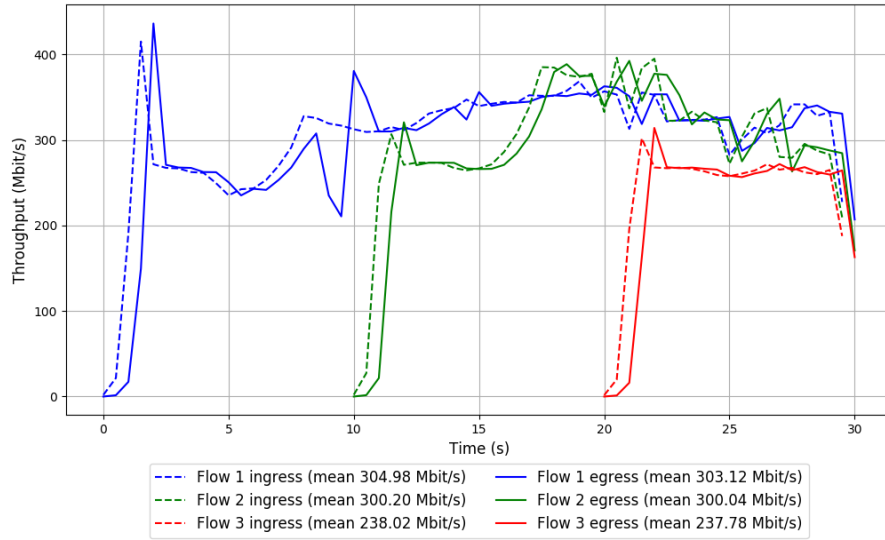
-- Flow 2:

Average throughput: 300.04 Mbit/s  
95th percentile per-packet one-way delay: 67.045 ms  
Loss rate: 0.54%

-- Flow 3:

Average throughput: 237.78 Mbit/s  
95th percentile per-packet one-way delay: 49.200 ms  
Loss rate: 1.08%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-09-19 04:56:50

End at: 2019-09-19 04:57:20

Local clock offset: -0.163 ms

Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2019-09-19 09:14:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 595.10 Mbit/s

95th percentile per-packet one-way delay: 56.264 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 319.70 Mbit/s

95th percentile per-packet one-way delay: 58.811 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 298.04 Mbit/s

95th percentile per-packet one-way delay: 54.912 ms

Loss rate: 0.43%

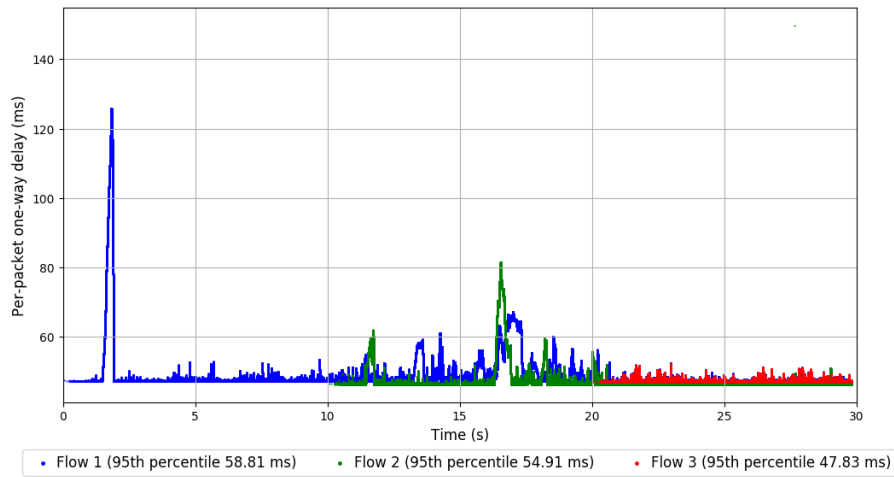
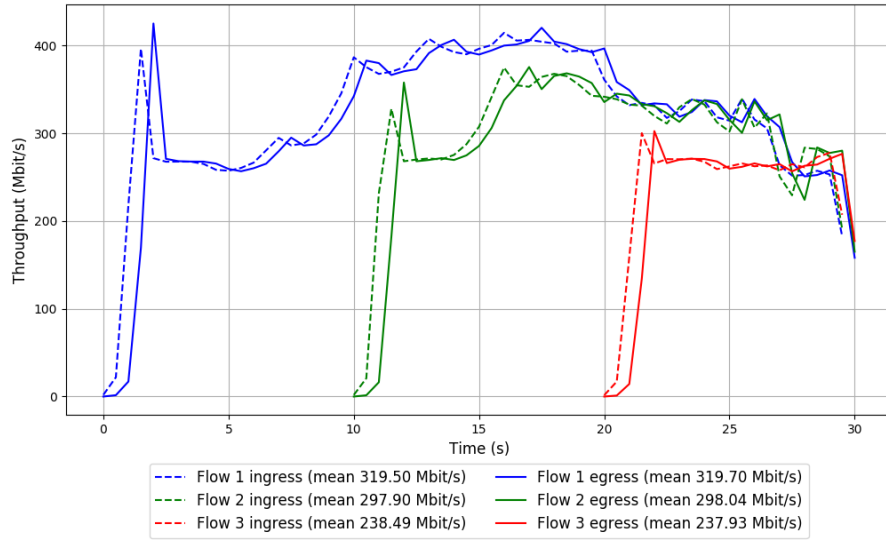
-- Flow 3:

Average throughput: 237.93 Mbit/s

95th percentile per-packet one-way delay: 47.831 ms

Loss rate: 1.21%

## Run 2: Report of PCC-Allegro — Data Link



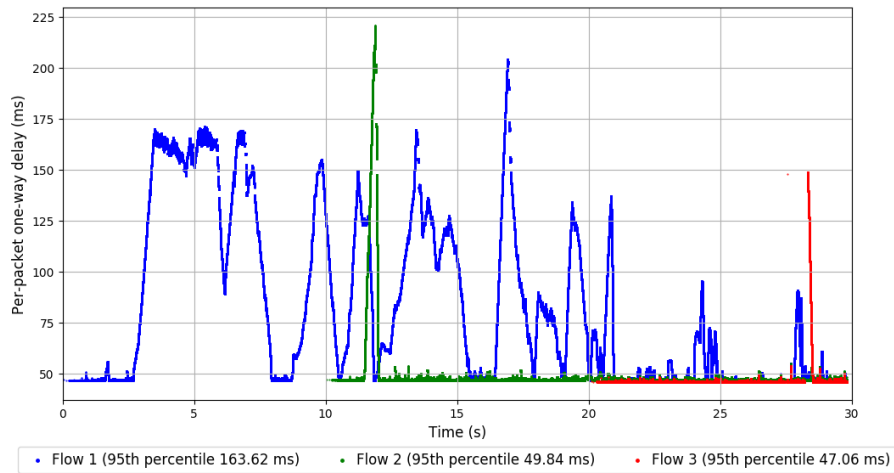
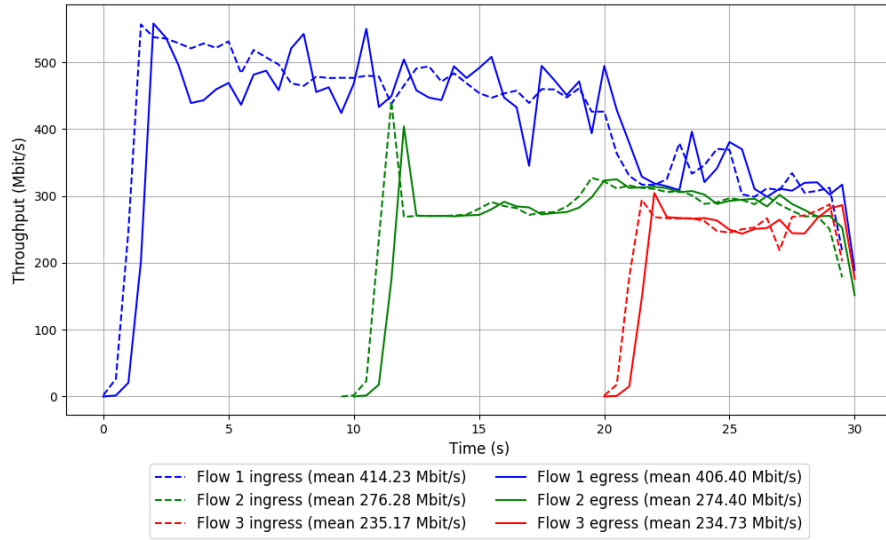


Run 3: Statistics of PCC-Allegro

Start at: 2019-09-19 05:34:39  
End at: 2019-09-19 05:35:09  
Local clock offset: -0.559 ms  
Remote clock offset: -0.046 ms

```
# Below is generated by plot.py at 2019-09-19 09:19:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 665.19 Mbit/s
95th percentile per-packet one-way delay: 161.178 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 406.40 Mbit/s
95th percentile per-packet one-way delay: 163.619 ms
Loss rate: 2.21%
-- Flow 2:
Average throughput: 274.40 Mbit/s
95th percentile per-packet one-way delay: 49.841 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 234.73 Mbit/s
95th percentile per-packet one-way delay: 47.059 ms
Loss rate: 1.17%
```

### Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-09-19 06:12:22

End at: 2019-09-19 06:12:52

Local clock offset: -0.182 ms

Remote clock offset: 0.056 ms

# Below is generated by plot.py at 2019-09-19 09:21:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 682.72 Mbit/s

95th percentile per-packet one-way delay: 169.008 ms

Loss rate: 4.03%

-- Flow 1:

Average throughput: 403.44 Mbit/s

95th percentile per-packet one-way delay: 170.777 ms

Loss rate: 6.10%

-- Flow 2:

Average throughput: 294.74 Mbit/s

95th percentile per-packet one-way delay: 51.524 ms

Loss rate: 0.72%

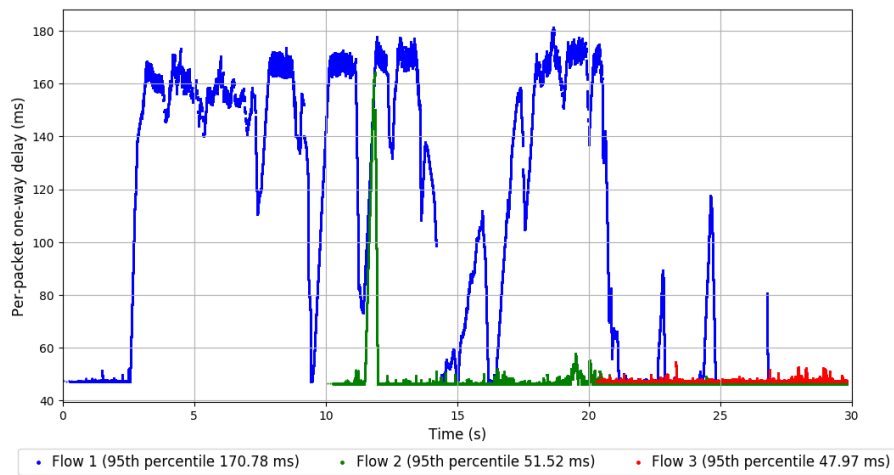
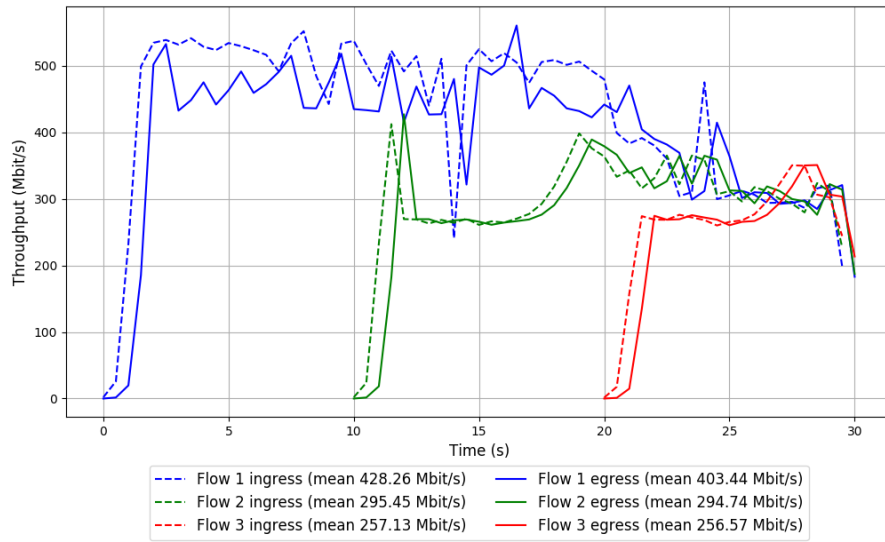
-- Flow 3:

Average throughput: 256.57 Mbit/s

95th percentile per-packet one-way delay: 47.970 ms

Loss rate: 1.22%

### Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-09-19 06:50:07

End at: 2019-09-19 06:50:37

Local clock offset: -0.169 ms

Remote clock offset: 0.054 ms

# Below is generated by plot.py at 2019-09-19 09:21:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 581.43 Mbit/s

95th percentile per-packet one-way delay: 82.577 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 320.26 Mbit/s

95th percentile per-packet one-way delay: 93.103 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 273.44 Mbit/s

95th percentile per-packet one-way delay: 49.953 ms

Loss rate: 0.54%

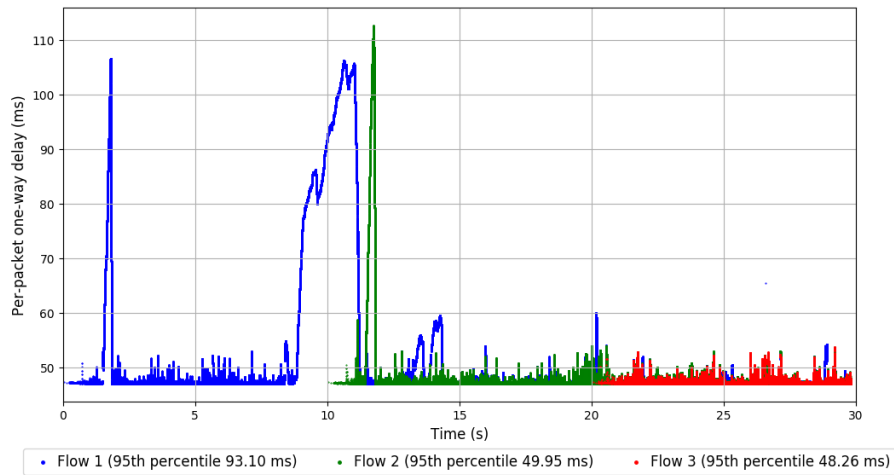
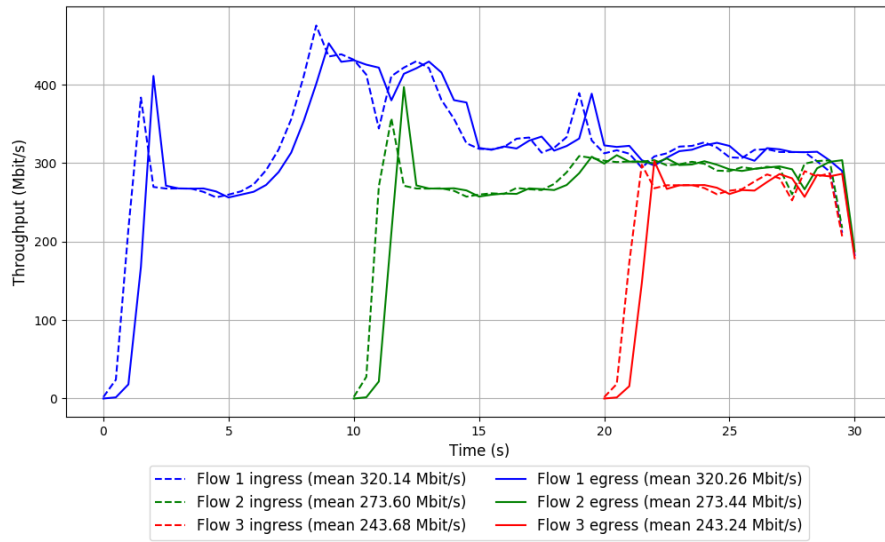
-- Flow 3:

Average throughput: 243.24 Mbit/s

95th percentile per-packet one-way delay: 48.257 ms

Loss rate: 1.15%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-09-19 04:27:26  
End at: 2019-09-19 04:27:56  
Local clock offset: -0.166 ms  
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2019-09-19 09:21:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 372.74 Mbit/s  
95th percentile per-packet one-way delay: 50.696 ms  
Loss rate: 0.62%

-- Flow 1:

Average throughput: 194.64 Mbit/s  
95th percentile per-packet one-way delay: 49.501 ms  
Loss rate: 0.35%

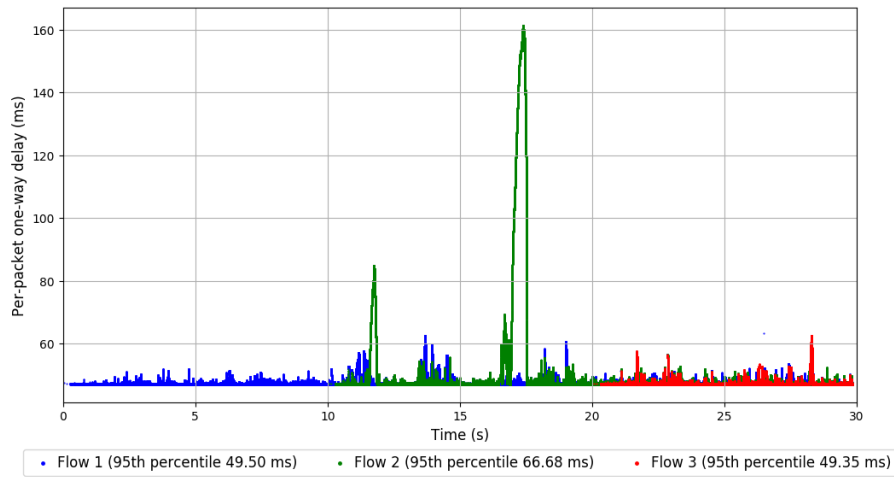
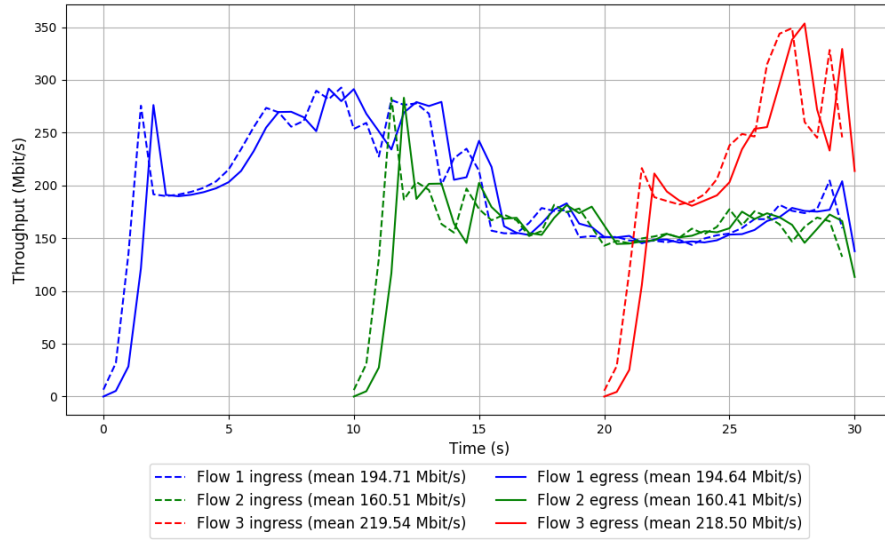
-- Flow 2:

Average throughput: 160.41 Mbit/s  
95th percentile per-packet one-way delay: 66.683 ms  
Loss rate: 0.54%

-- Flow 3:

Average throughput: 218.50 Mbit/s  
95th percentile per-packet one-way delay: 49.346 ms  
Loss rate: 1.44%

# Run 1: Report of PCC-Expr — Data Link





Run 2: Statistics of PCC-Expr

Start at: 2019-09-19 05:04:49

End at: 2019-09-19 05:05:19

Local clock offset: -0.182 ms

Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2019-09-19 09:21:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 437.03 Mbit/s

95th percentile per-packet one-way delay: 51.405 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 236.57 Mbit/s

95th percentile per-packet one-way delay: 54.042 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 238.08 Mbit/s

95th percentile per-packet one-way delay: 47.519 ms

Loss rate: 0.33%

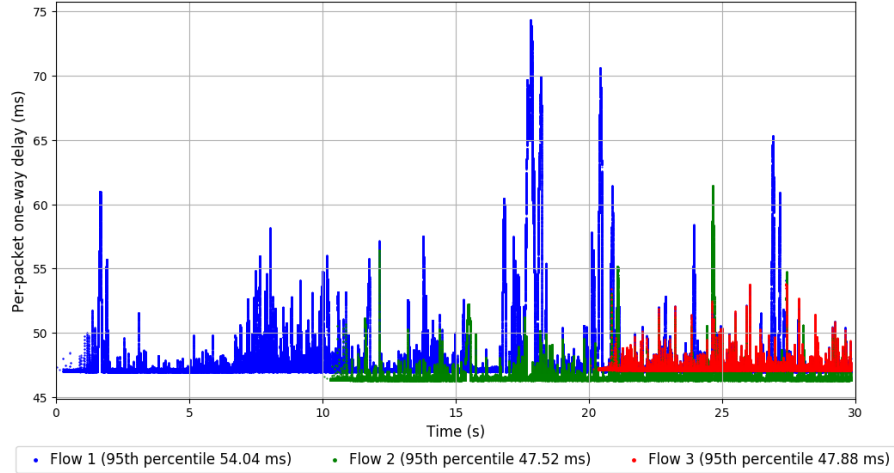
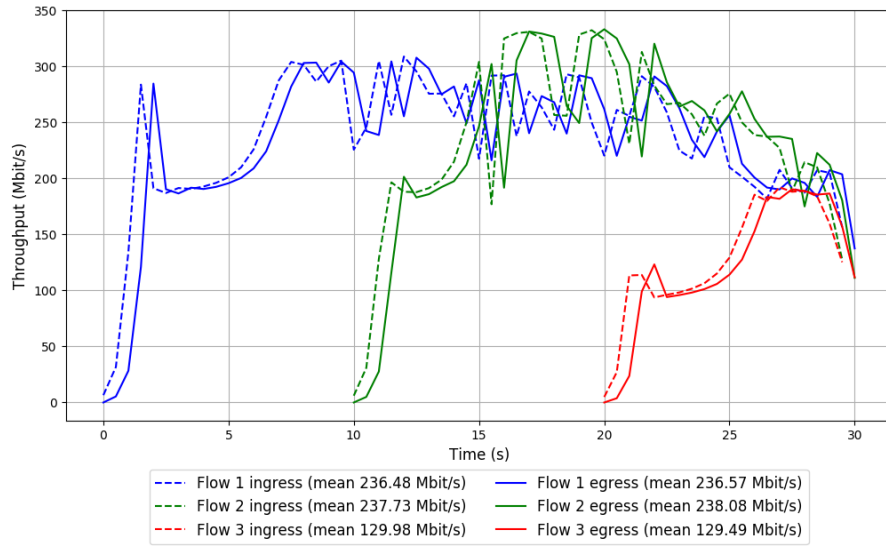
-- Flow 3:

Average throughput: 129.49 Mbit/s

95th percentile per-packet one-way delay: 47.880 ms

Loss rate: 1.35%

## Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-09-19 05:42:45

End at: 2019-09-19 05:43:15

Local clock offset: -0.231 ms

Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2019-09-19 09:21:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 408.91 Mbit/s

95th percentile per-packet one-way delay: 48.734 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 240.56 Mbit/s

95th percentile per-packet one-way delay: 49.367 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 169.70 Mbit/s

95th percentile per-packet one-way delay: 48.131 ms

Loss rate: 0.54%

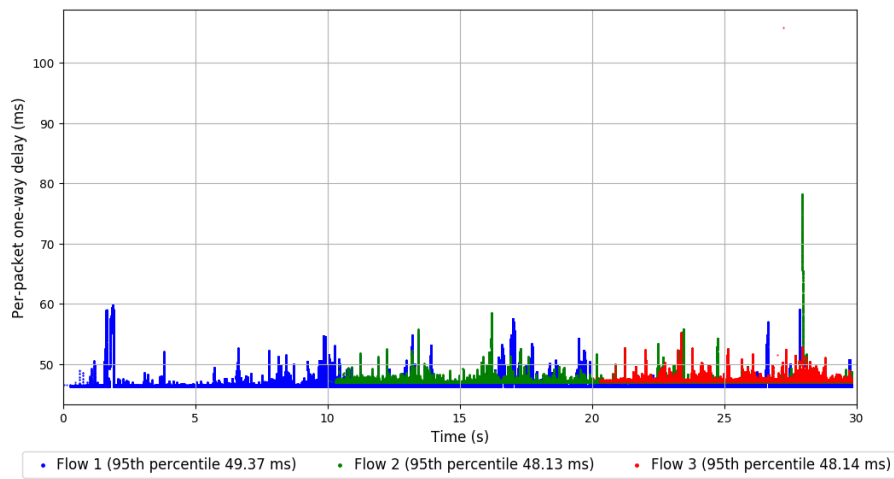
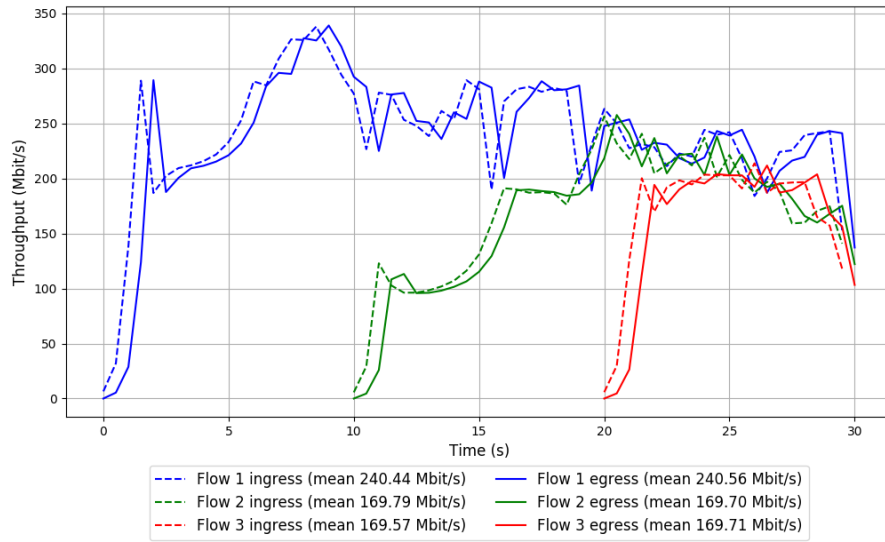
-- Flow 3:

Average throughput: 169.71 Mbit/s

95th percentile per-packet one-way delay: 48.144 ms

Loss rate: 0.90%

### Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-09-19 06:20:33

End at: 2019-09-19 06:21:03

Local clock offset: -0.186 ms

Remote clock offset: 0.068 ms

# Below is generated by plot.py at 2019-09-19 09:25:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 400.66 Mbit/s

95th percentile per-packet one-way delay: 48.638 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 233.83 Mbit/s

95th percentile per-packet one-way delay: 49.695 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 179.60 Mbit/s

95th percentile per-packet one-way delay: 47.713 ms

Loss rate: 0.51%

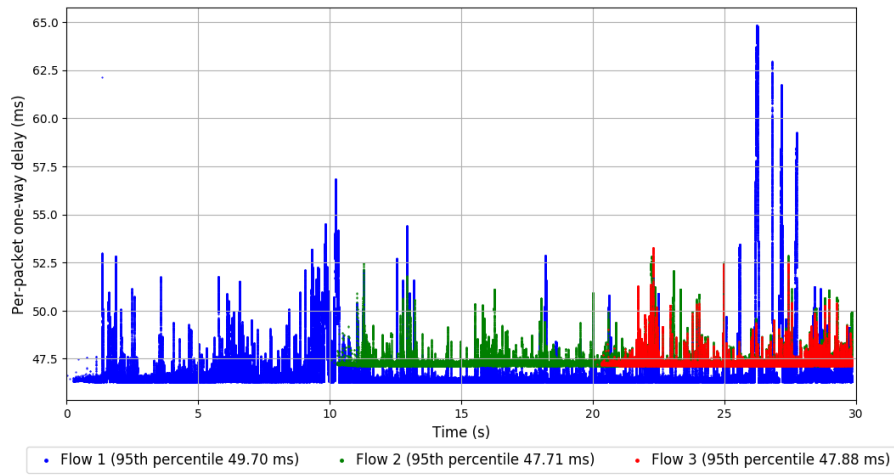
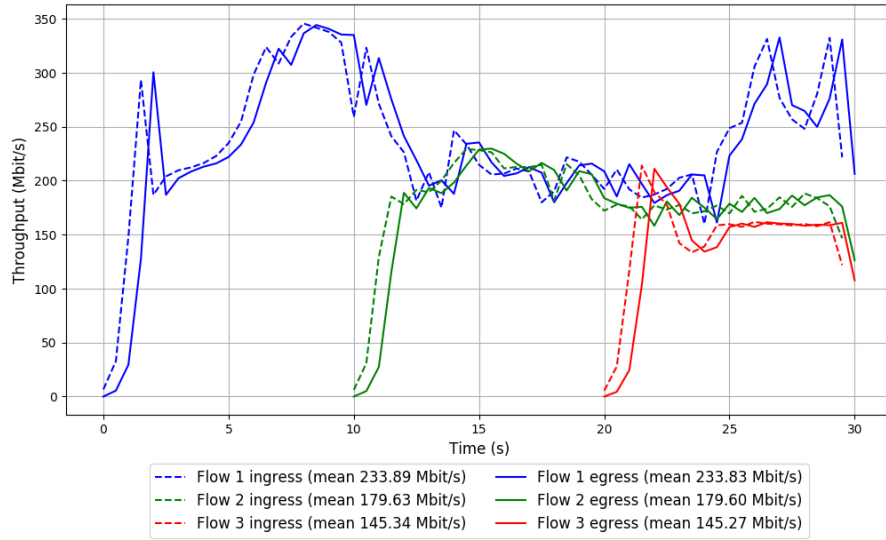
-- Flow 3:

Average throughput: 145.27 Mbit/s

95th percentile per-packet one-way delay: 47.878 ms

Loss rate: 1.02%

### Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-09-19 06:58:03

End at: 2019-09-19 06:58:33

Local clock offset: -0.147 ms

Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2019-09-19 09:25:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 384.88 Mbit/s

95th percentile per-packet one-way delay: 48.889 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 229.94 Mbit/s

95th percentile per-packet one-way delay: 48.988 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 164.79 Mbit/s

95th percentile per-packet one-way delay: 48.703 ms

Loss rate: 0.45%

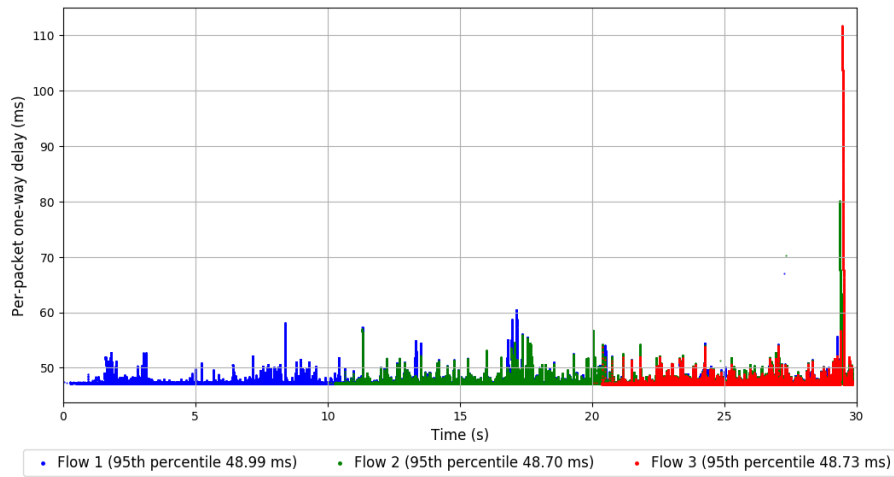
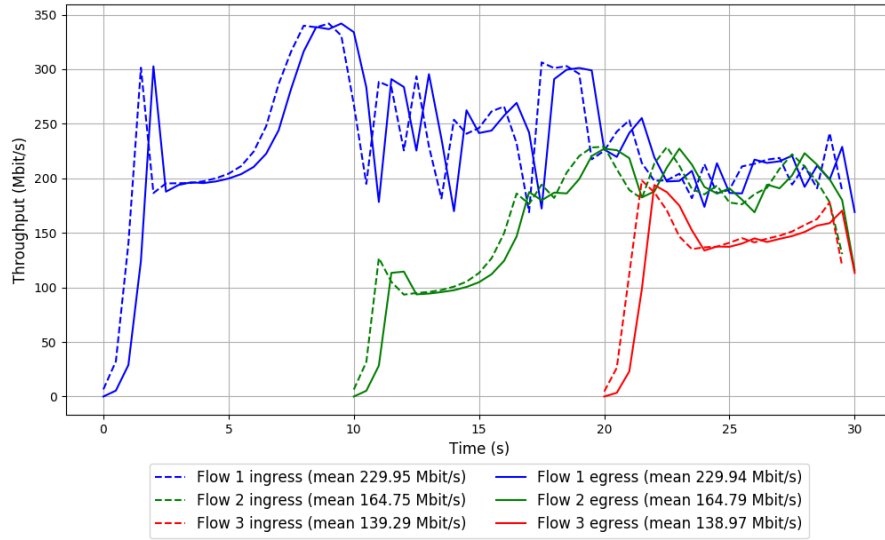
-- Flow 3:

Average throughput: 138.97 Mbit/s

95th percentile per-packet one-way delay: 48.733 ms

Loss rate: 1.20%

Run 5: Report of PCC-Expr — Data Link





Run 1: Statistics of QUIC Cubic

Start at: 2019-09-19 04:01:26  
End at: 2019-09-19 04:01:56  
Local clock offset: -0.203 ms  
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-09-19 09:25:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 132.02 Mbit/s  
95th percentile per-packet one-way delay: 47.246 ms  
Loss rate: 0.51%

-- Flow 1:

Average throughput: 68.74 Mbit/s  
95th percentile per-packet one-way delay: 47.222 ms  
Loss rate: 0.37%

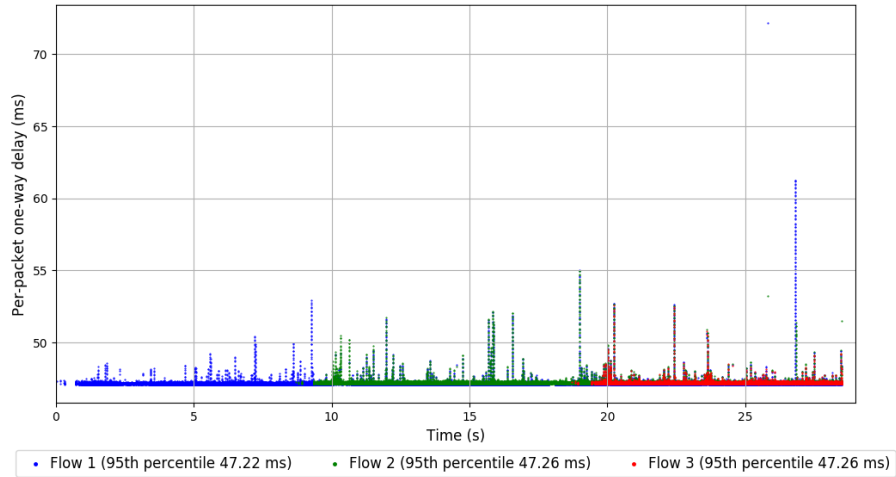
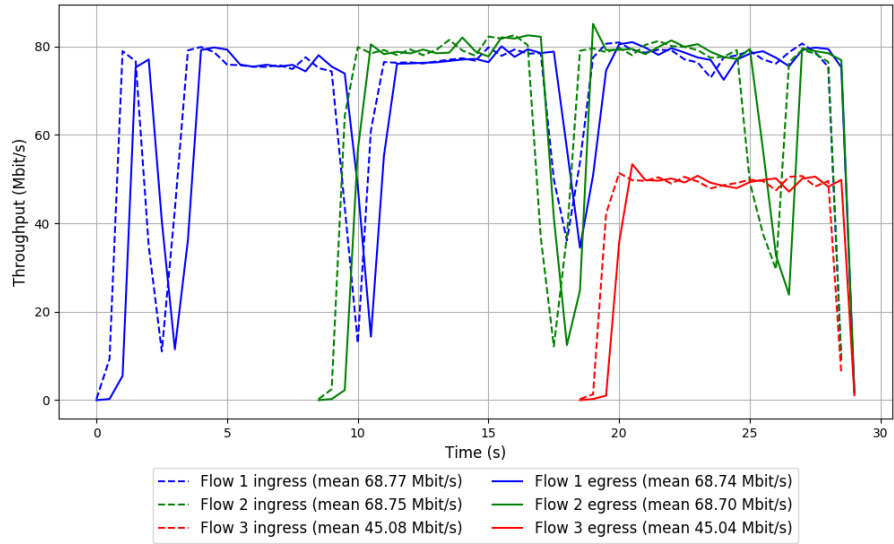
-- Flow 2:

Average throughput: 68.70 Mbit/s  
95th percentile per-packet one-way delay: 47.263 ms  
Loss rate: 0.53%

-- Flow 3:

Average throughput: 45.04 Mbit/s  
95th percentile per-packet one-way delay: 47.255 ms  
Loss rate: 1.07%

### Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-09-19 04:38:50  
End at: 2019-09-19 04:39:20  
Local clock offset: -0.556 ms  
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2019-09-19 09:25:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 123.05 Mbit/s  
95th percentile per-packet one-way delay: 46.801 ms  
Loss rate: 0.48%

-- Flow 1:

Average throughput: 65.56 Mbit/s  
95th percentile per-packet one-way delay: 46.079 ms  
Loss rate: 0.31%

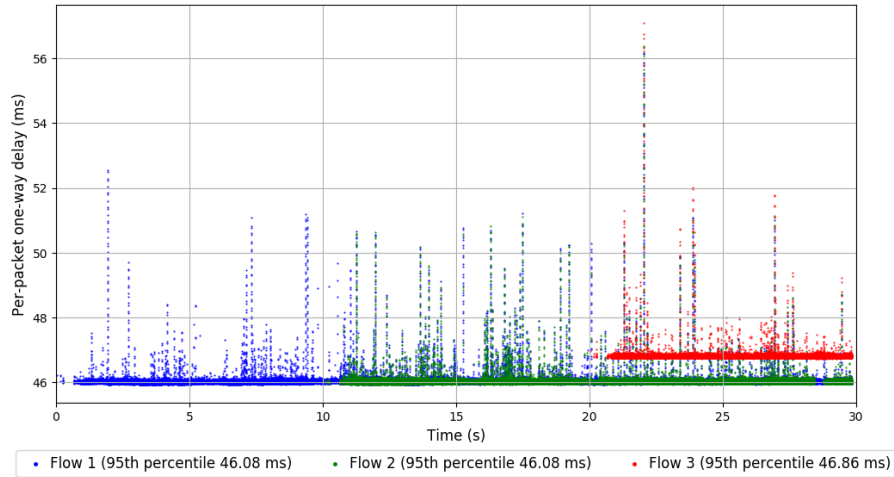
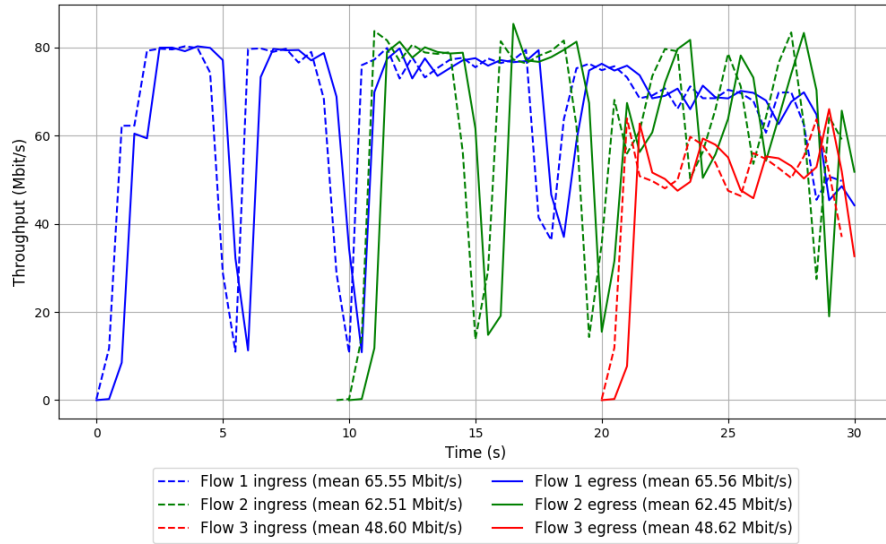
-- Flow 2:

Average throughput: 62.45 Mbit/s  
95th percentile per-packet one-way delay: 46.078 ms  
Loss rate: 0.58%

-- Flow 3:

Average throughput: 48.62 Mbit/s  
95th percentile per-packet one-way delay: 46.857 ms  
Loss rate: 0.94%

## Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-09-19 05:16:21  
End at: 2019-09-19 05:16:51  
Local clock offset: -0.155 ms  
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2019-09-19 09:25:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 121.78 Mbit/s  
95th percentile per-packet one-way delay: 47.251 ms  
Loss rate: 0.47%

-- Flow 1:

Average throughput: 65.21 Mbit/s  
95th percentile per-packet one-way delay: 46.416 ms  
Loss rate: 0.38%

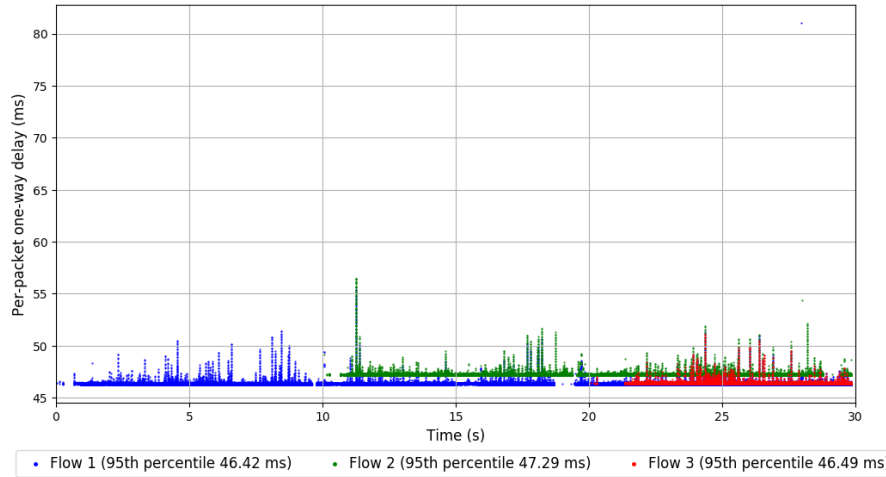
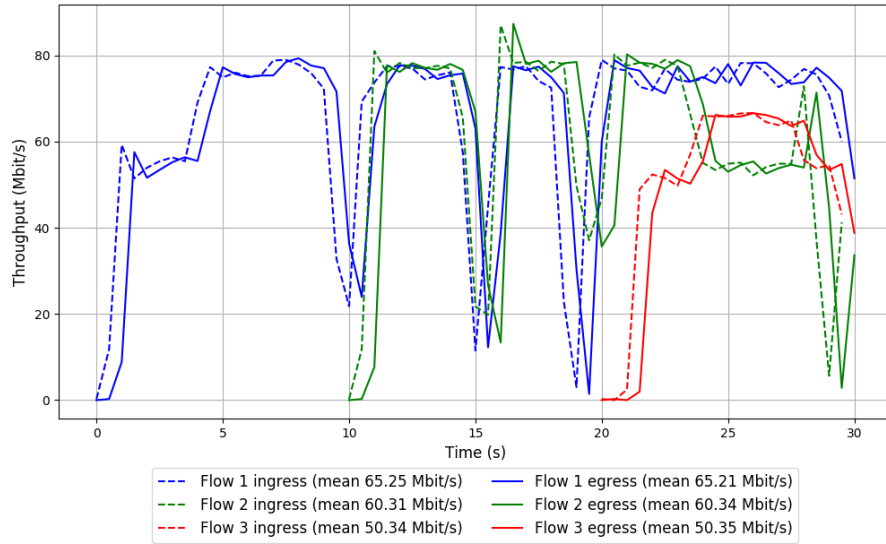
-- Flow 2:

Average throughput: 60.34 Mbit/s  
95th percentile per-packet one-way delay: 47.294 ms  
Loss rate: 0.44%

-- Flow 3:

Average throughput: 50.35 Mbit/s  
95th percentile per-packet one-way delay: 46.487 ms  
Loss rate: 0.93%

### Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-09-19 05:54:17

End at: 2019-09-19 05:54:47

Local clock offset: -0.201 ms

Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2019-09-19 09:25:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 120.02 Mbit/s

95th percentile per-packet one-way delay: 47.244 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 68.60 Mbit/s

95th percentile per-packet one-way delay: 46.429 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 54.69 Mbit/s

95th percentile per-packet one-way delay: 47.281 ms

Loss rate: 0.46%

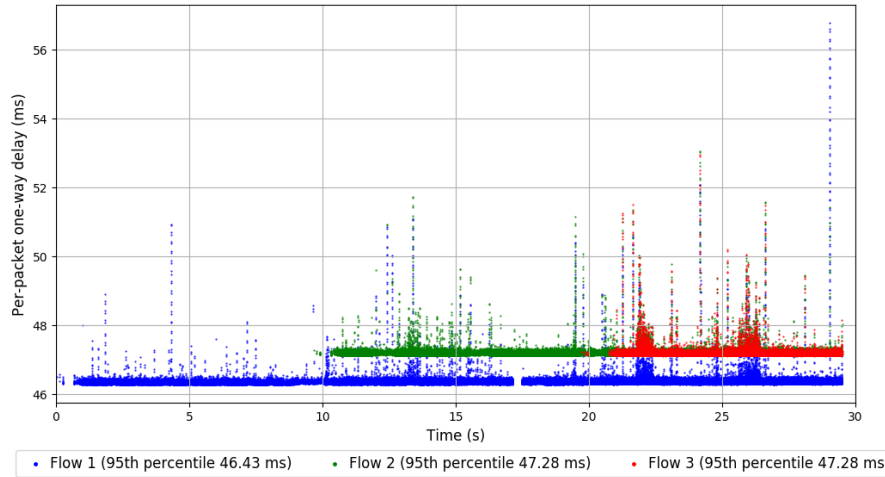
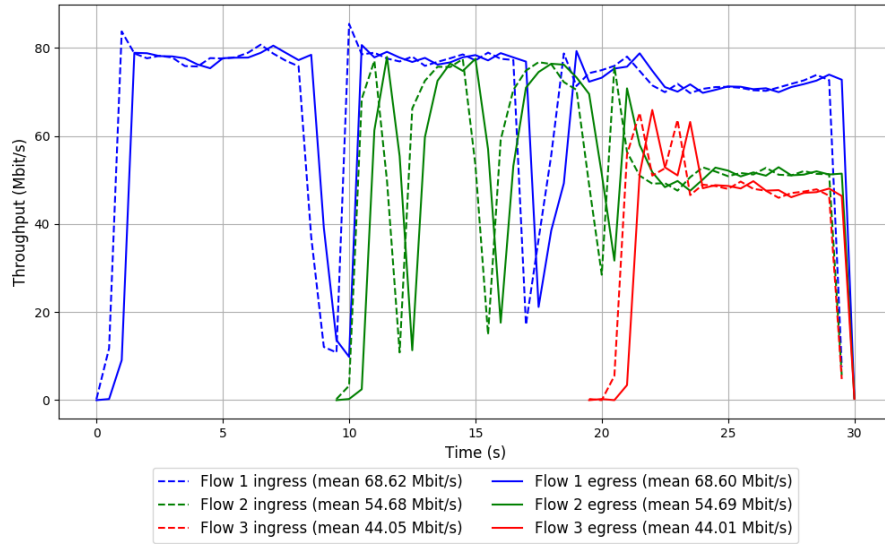
-- Flow 3:

Average throughput: 44.01 Mbit/s

95th percentile per-packet one-way delay: 47.281 ms

Loss rate: 1.04%

Run 4: Report of QUIC Cubic — Data Link





Run 5: Statistics of QUIC Cubic

Start at: 2019-09-19 06:31:56

End at: 2019-09-19 06:32:26

Local clock offset: -0.178 ms

Remote clock offset: 0.064 ms

# Below is generated by plot.py at 2019-09-19 09:25:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 112.52 Mbit/s

95th percentile per-packet one-way delay: 47.295 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 65.82 Mbit/s

95th percentile per-packet one-way delay: 47.133 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 48.95 Mbit/s

95th percentile per-packet one-way delay: 47.338 ms

Loss rate: 0.71%

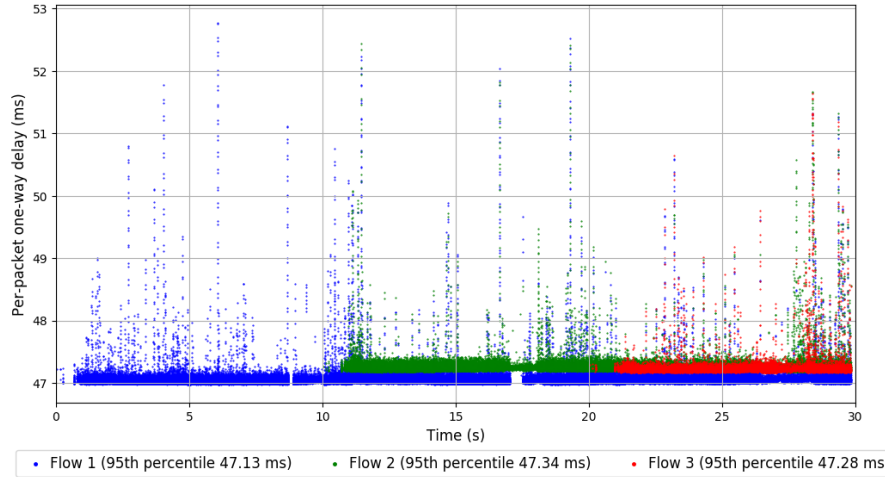
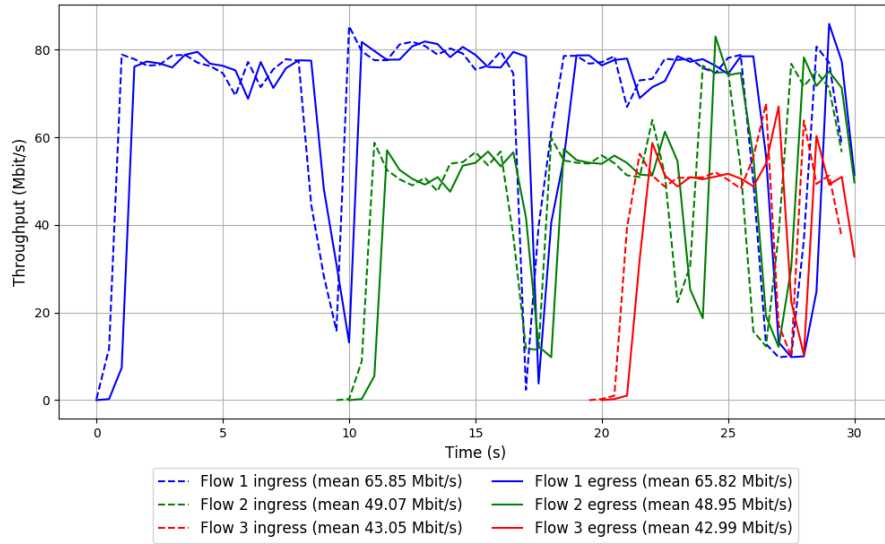
-- Flow 3:

Average throughput: 42.99 Mbit/s

95th percentile per-packet one-way delay: 47.285 ms

Loss rate: 1.10%

### Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-09-19 04:10:45  
End at: 2019-09-19 04:11:15  
Local clock offset: 0.193 ms  
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2019-09-19 09:25:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 47.735 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.949 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.754 ms

Loss rate: 0.61%

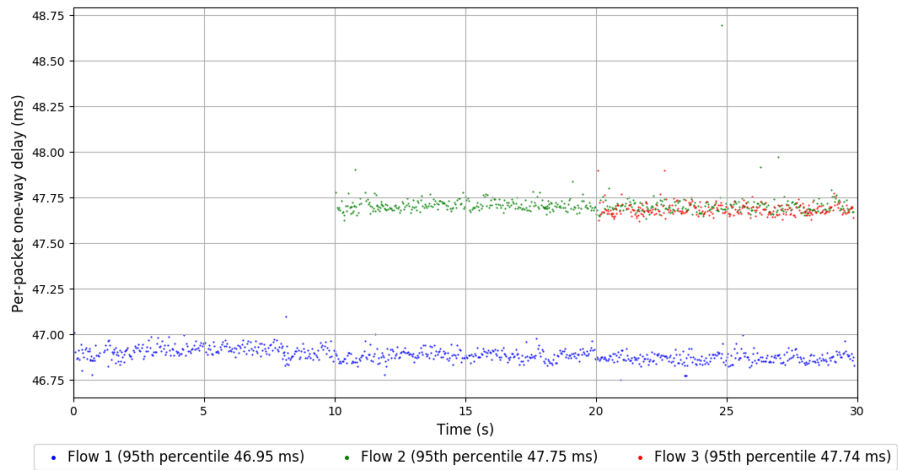
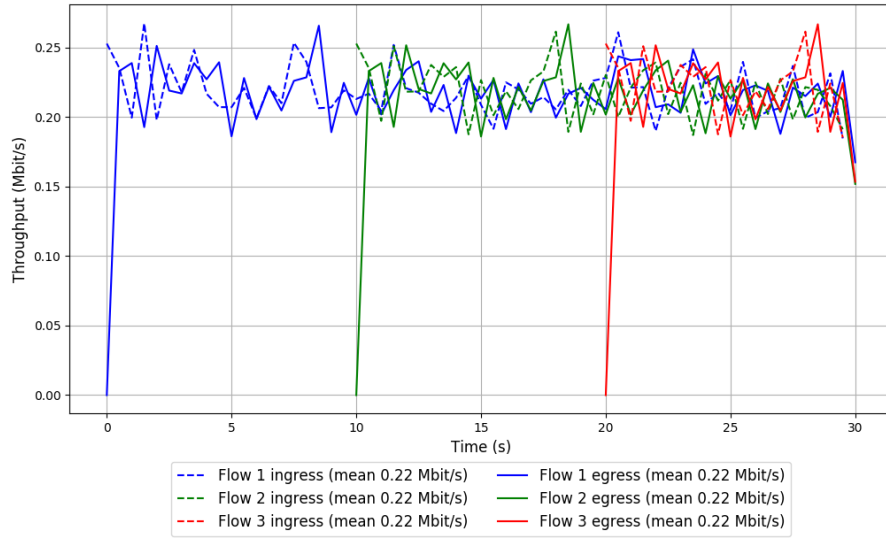
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.738 ms

Loss rate: 1.09%

### Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-09-19 04:48:04  
End at: 2019-09-19 04:48:34  
Local clock offset: -0.154 ms  
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2019-09-19 09:25:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 47.293 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.306 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.255 ms

Loss rate: 0.62%

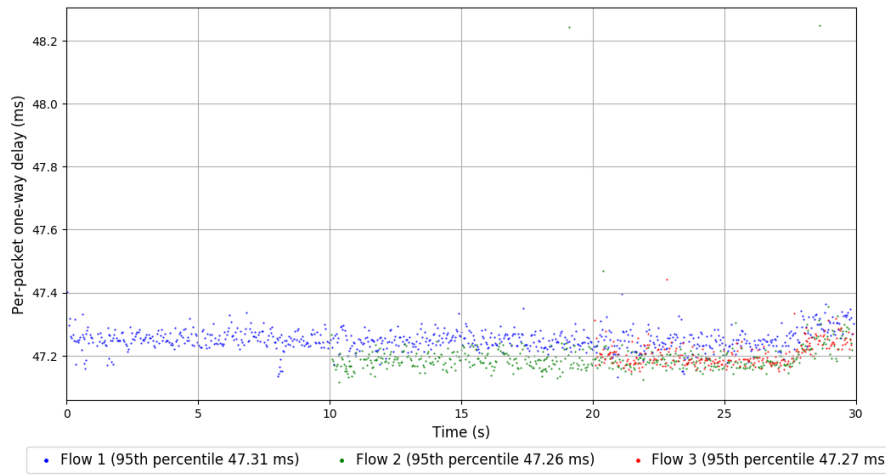
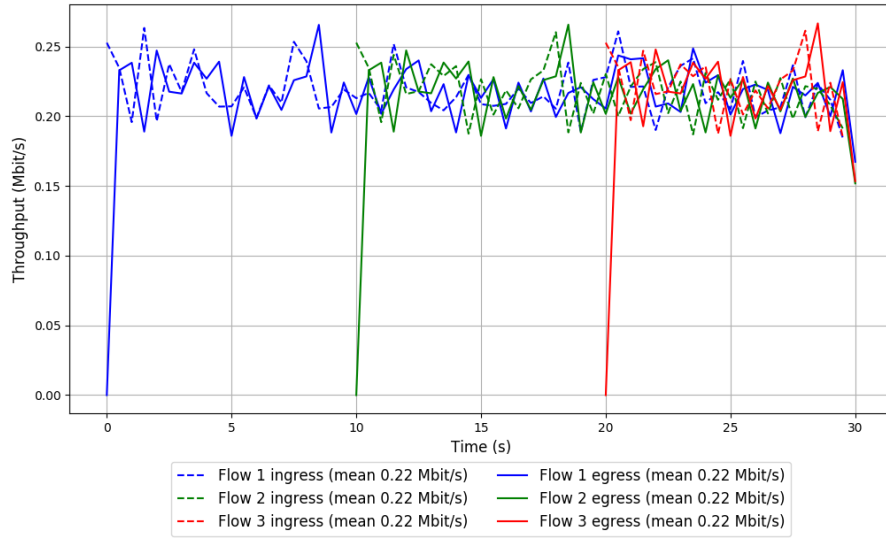
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.270 ms

Loss rate: 1.09%

## Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-09-19 05:25:49  
End at: 2019-09-19 05:26:19  
Local clock offset: -0.139 ms  
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-09-19 09:25:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 47.360 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.321 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.385 ms

Loss rate: 0.61%

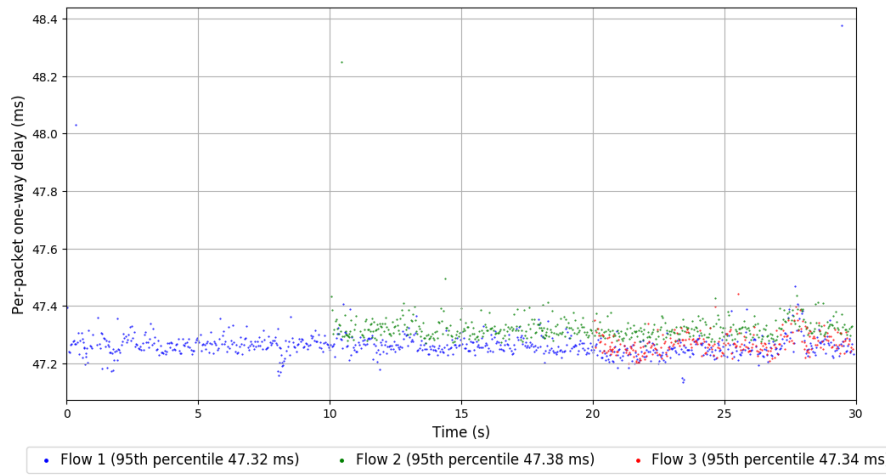
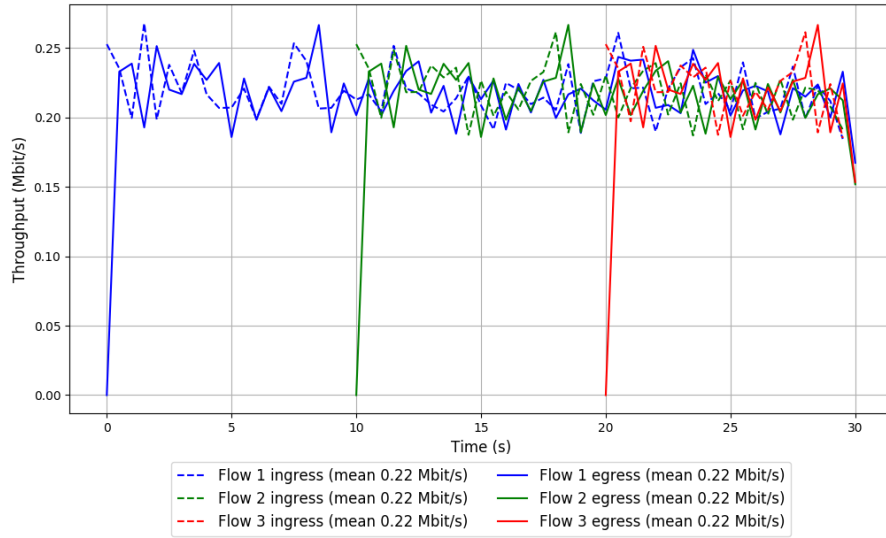
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.337 ms

Loss rate: 1.09%

### Run 3: Report of SCReAM — Data Link





Run 4: Statistics of SCReAM

Start at: 2019-09-19 06:03:38

End at: 2019-09-19 06:04:08

Local clock offset: -0.174 ms

Remote clock offset: 0.061 ms

# Below is generated by plot.py at 2019-09-19 09:25:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 47.449 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.466 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.442 ms

Loss rate: 0.61%

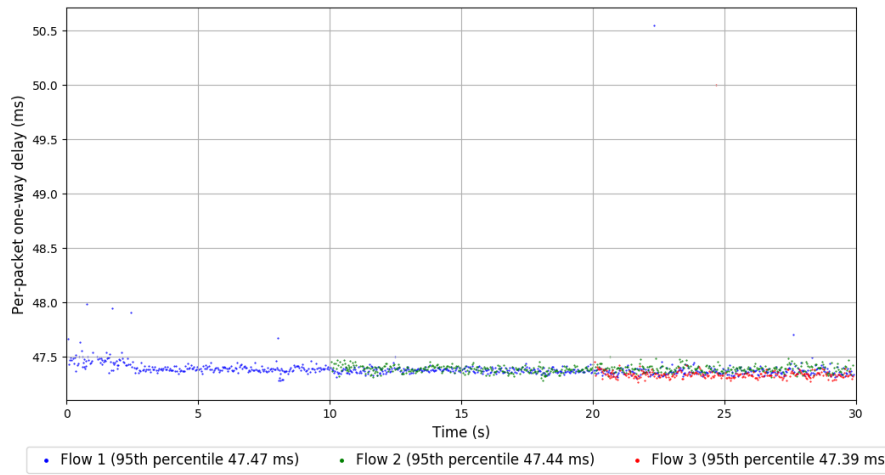
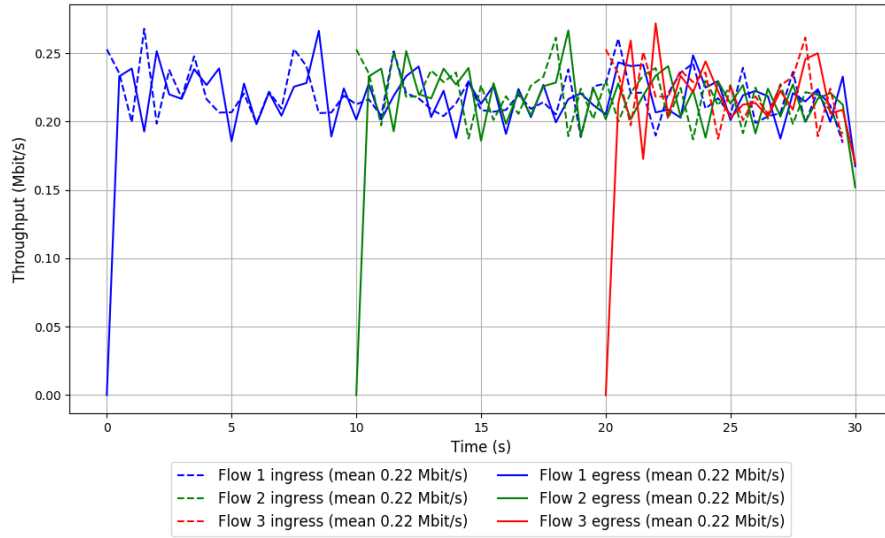
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.389 ms

Loss rate: 1.09%

### Run 4: Report of SCReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-09-19 06:41:19

End at: 2019-09-19 06:41:49

Local clock offset: -0.174 ms

Remote clock offset: 0.066 ms

# Below is generated by plot.py at 2019-09-19 09:25:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 47.303 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.602 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.200 ms

Loss rate: 0.40%

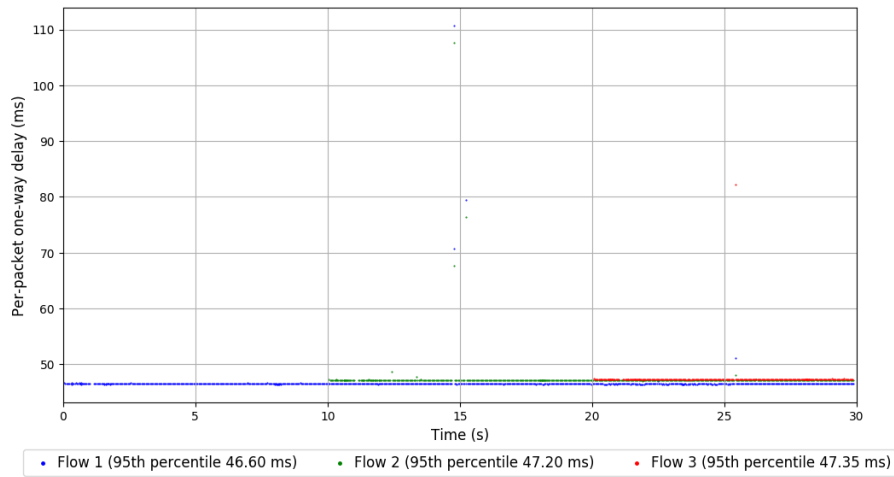
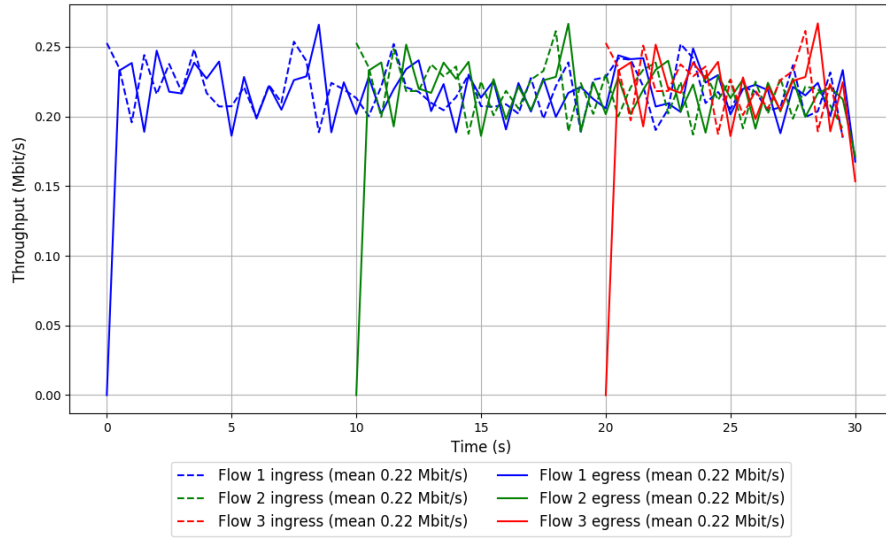
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.353 ms

Loss rate: 1.09%

### Run 5: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-09-19 04:37:37  
End at: 2019-09-19 04:38:07  
Local clock offset: -0.521 ms  
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2019-09-19 09:25:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 19.02 Mbit/s  
95th percentile per-packet one-way delay: 47.209 ms  
Loss rate: 0.49%

-- Flow 1:

Average throughput: 9.69 Mbit/s  
95th percentile per-packet one-way delay: 47.084 ms  
Loss rate: 0.29%

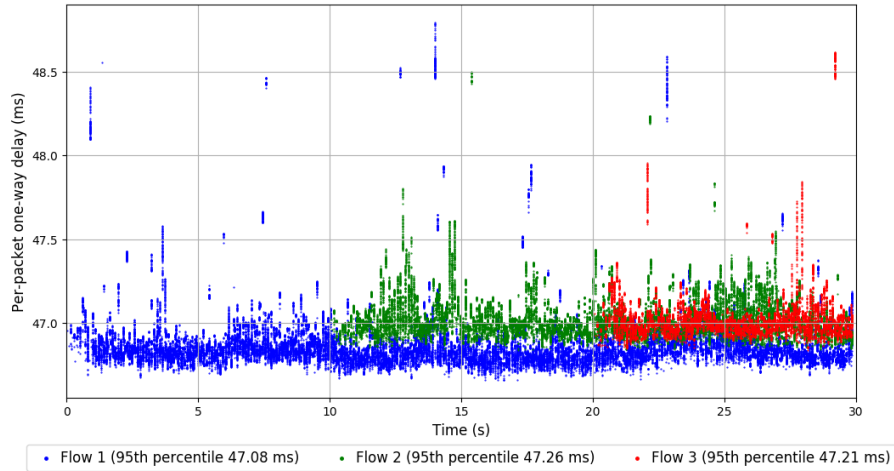
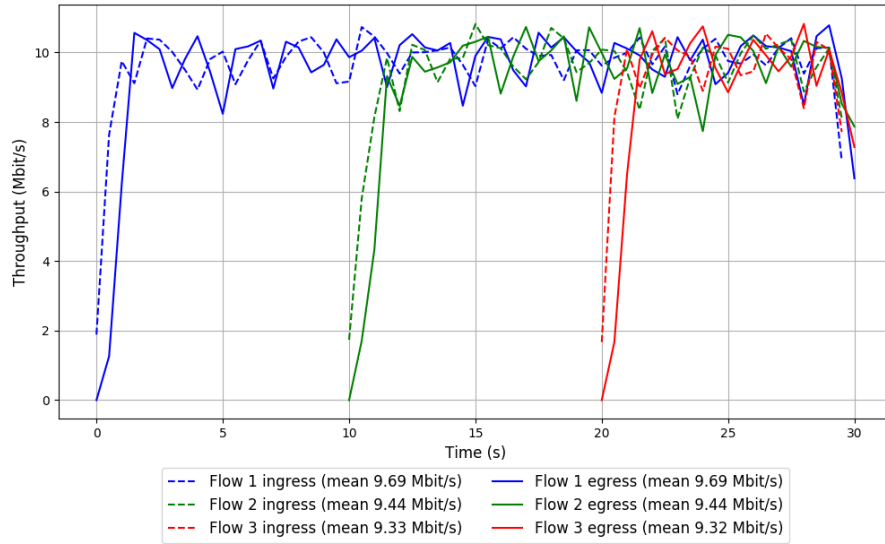
-- Flow 2:

Average throughput: 9.44 Mbit/s  
95th percentile per-packet one-way delay: 47.255 ms  
Loss rate: 0.54%

-- Flow 3:

Average throughput: 9.32 Mbit/s  
95th percentile per-packet one-way delay: 47.206 ms  
Loss rate: 1.03%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-09-19 05:15:08  
End at: 2019-09-19 05:15:38  
Local clock offset: -0.152 ms  
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2019-09-19 09:25:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 19.05 Mbit/s  
95th percentile per-packet one-way delay: 47.454 ms  
Loss rate: 0.51%

-- Flow 1:

Average throughput: 9.71 Mbit/s  
95th percentile per-packet one-way delay: 46.853 ms  
Loss rate: 0.33%

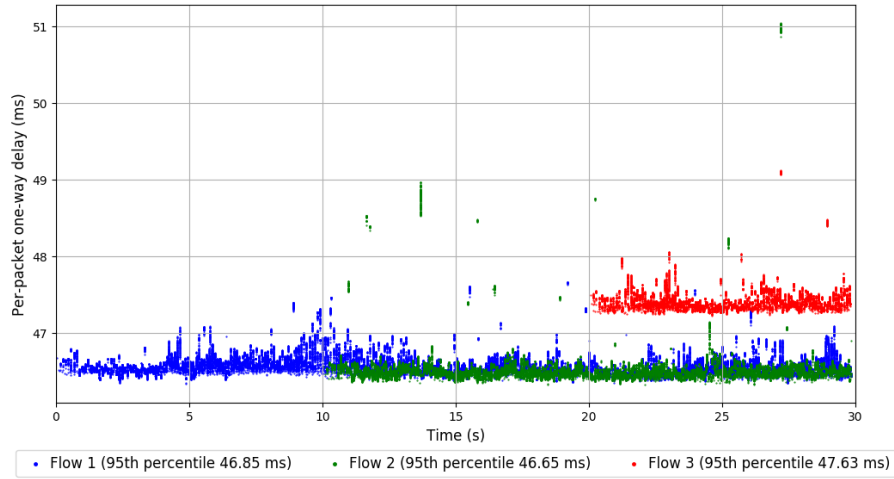
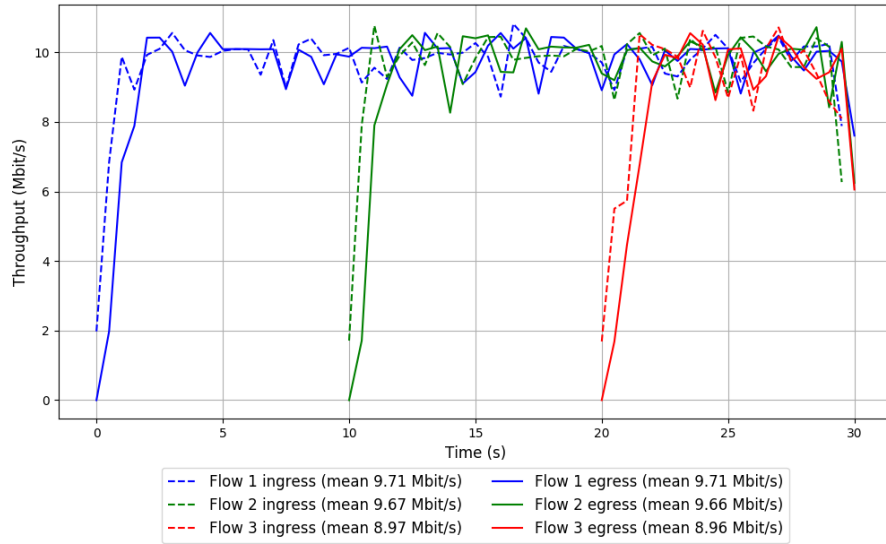
-- Flow 2:

Average throughput: 9.66 Mbit/s  
95th percentile per-packet one-way delay: 46.651 ms  
Loss rate: 0.49%

-- Flow 3:

Average throughput: 8.96 Mbit/s  
95th percentile per-packet one-way delay: 47.629 ms  
Loss rate: 1.16%

Run 2: Report of Sprout — Data Link





Run 3: Statistics of Sprout

Start at: 2019-09-19 05:53:04

End at: 2019-09-19 05:53:34

Local clock offset: -0.559 ms

Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2019-09-19 09:25:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 19.15 Mbit/s

95th percentile per-packet one-way delay: 47.033 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 9.63 Mbit/s

95th percentile per-packet one-way delay: 46.392 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 9.66 Mbit/s

95th percentile per-packet one-way delay: 47.051 ms

Loss rate: 0.52%

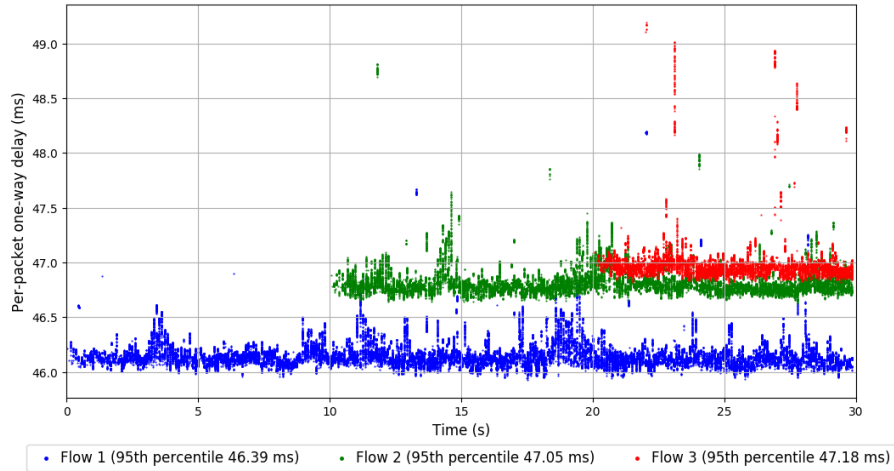
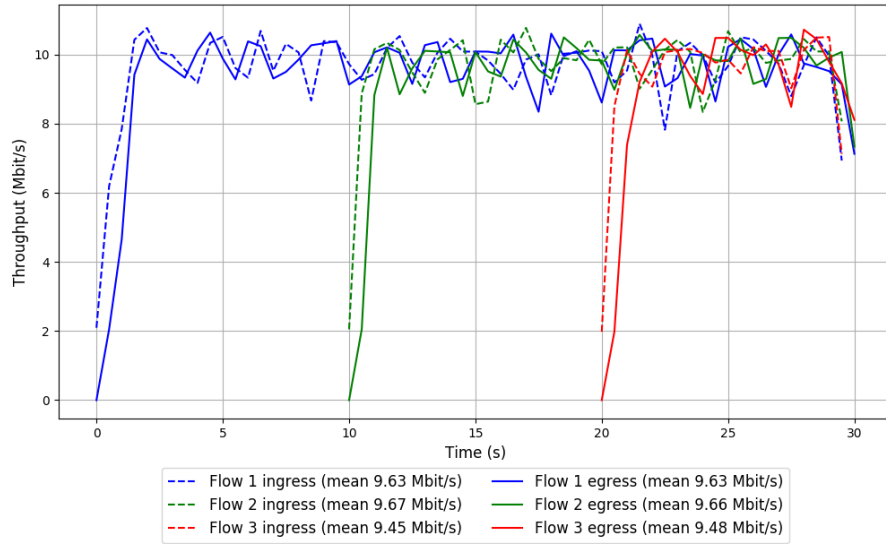
-- Flow 3:

Average throughput: 9.48 Mbit/s

95th percentile per-packet one-way delay: 47.181 ms

Loss rate: 0.57%

### Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-09-19 06:30:43

End at: 2019-09-19 06:31:13

Local clock offset: -0.175 ms

Remote clock offset: 0.055 ms

# Below is generated by plot.py at 2019-09-19 09:25:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 18.82 Mbit/s

95th percentile per-packet one-way delay: 47.643 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 9.67 Mbit/s

95th percentile per-packet one-way delay: 47.666 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 9.50 Mbit/s

95th percentile per-packet one-way delay: 47.633 ms

Loss rate: 0.54%

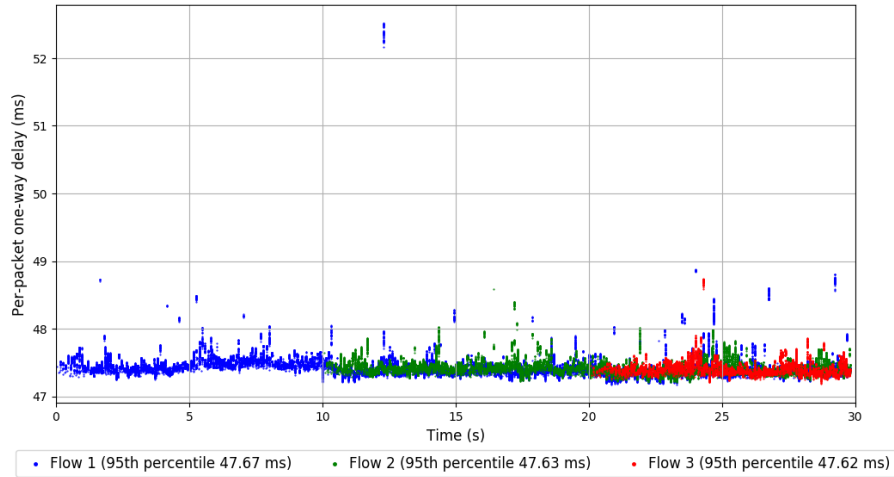
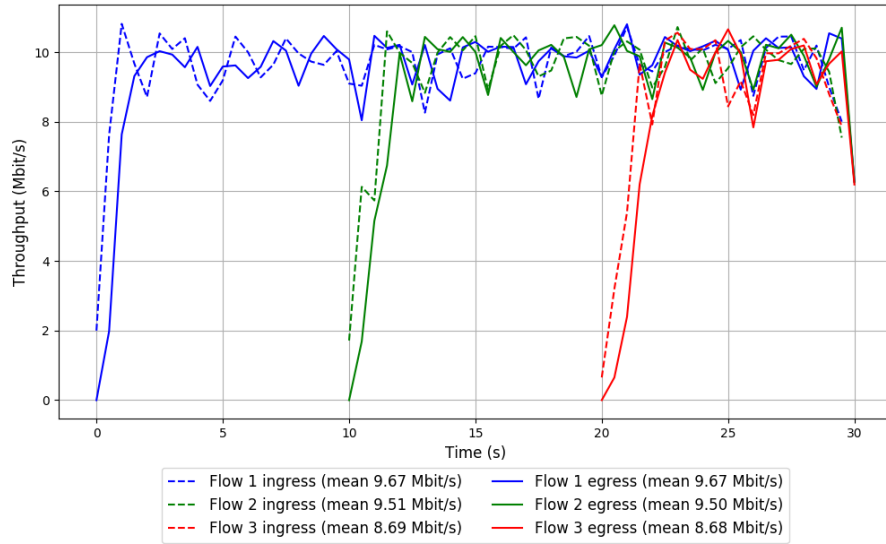
-- Flow 3:

Average throughput: 8.68 Mbit/s

95th percentile per-packet one-way delay: 47.618 ms

Loss rate: 1.15%

### Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-09-19 07:08:18

End at: 2019-09-19 07:08:48

Local clock offset: -0.192 ms

Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2019-09-19 09:25:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 19.16 Mbit/s

95th percentile per-packet one-way delay: 47.657 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 9.61 Mbit/s

95th percentile per-packet one-way delay: 47.676 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 9.69 Mbit/s

95th percentile per-packet one-way delay: 47.724 ms

Loss rate: 0.47%

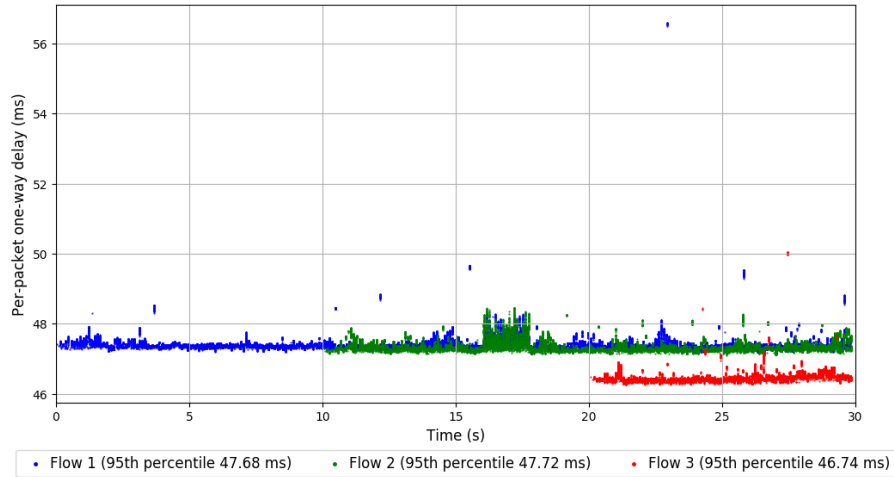
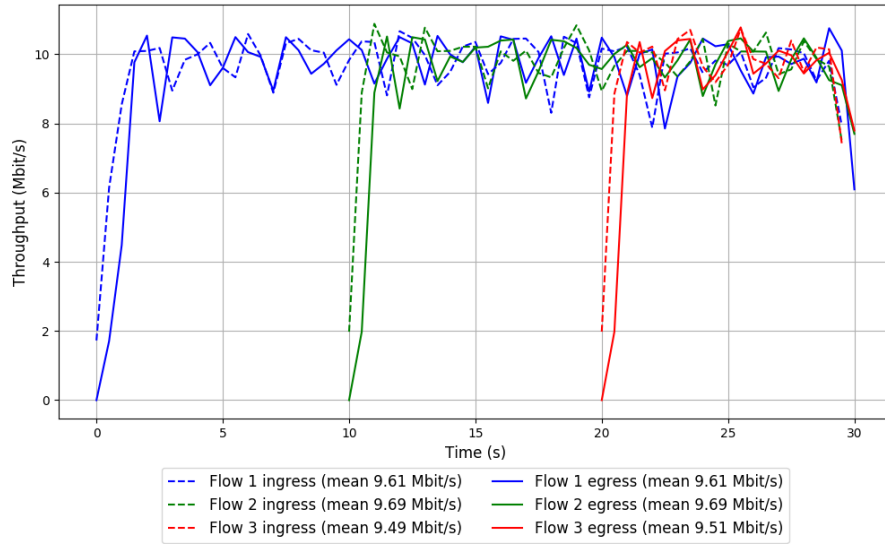
-- Flow 3:

Average throughput: 9.51 Mbit/s

95th percentile per-packet one-way delay: 46.736 ms

Loss rate: 0.89%

### Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-09-19 04:29:07  
End at: 2019-09-19 04:29:37  
Local clock offset: -0.169 ms  
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2019-09-19 09:34:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 413.00 Mbit/s  
95th percentile per-packet one-way delay: 49.236 ms  
Loss rate: 0.38%

-- Flow 1:

Average throughput: 217.68 Mbit/s  
95th percentile per-packet one-way delay: 49.206 ms  
Loss rate: 0.22%

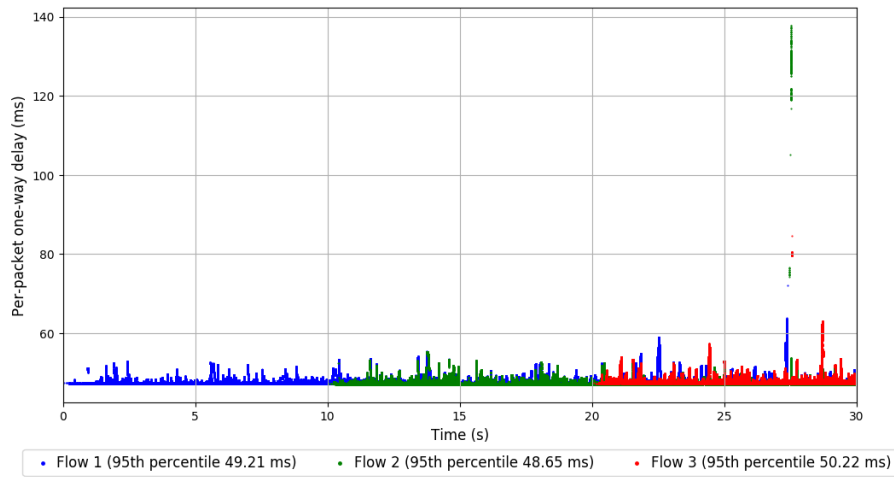
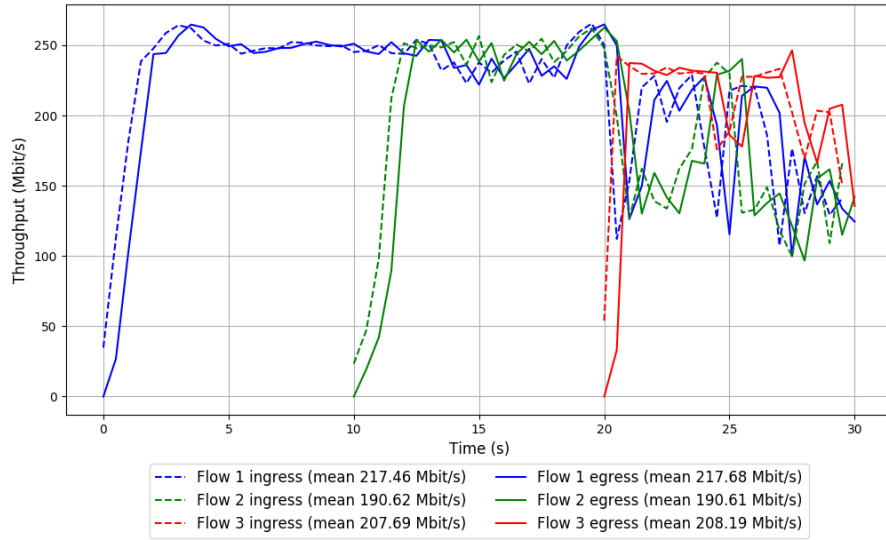
-- Flow 2:

Average throughput: 190.61 Mbit/s  
95th percentile per-packet one-way delay: 48.652 ms  
Loss rate: 0.47%

-- Flow 3:

Average throughput: 208.19 Mbit/s  
95th percentile per-packet one-way delay: 50.217 ms  
Loss rate: 0.73%

Run 1: Report of TaoVA-100x — Data Link





Run 2: Statistics of TaoVA-100x

Start at: 2019-09-19 05:06:34  
End at: 2019-09-19 05:07:04  
Local clock offset: -0.134 ms  
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2019-09-19 09:35:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 433.17 Mbit/s  
95th percentile per-packet one-way delay: 50.638 ms  
Loss rate: 0.47%

-- Flow 1:

Average throughput: 226.87 Mbit/s  
95th percentile per-packet one-way delay: 48.630 ms  
Loss rate: 0.32%

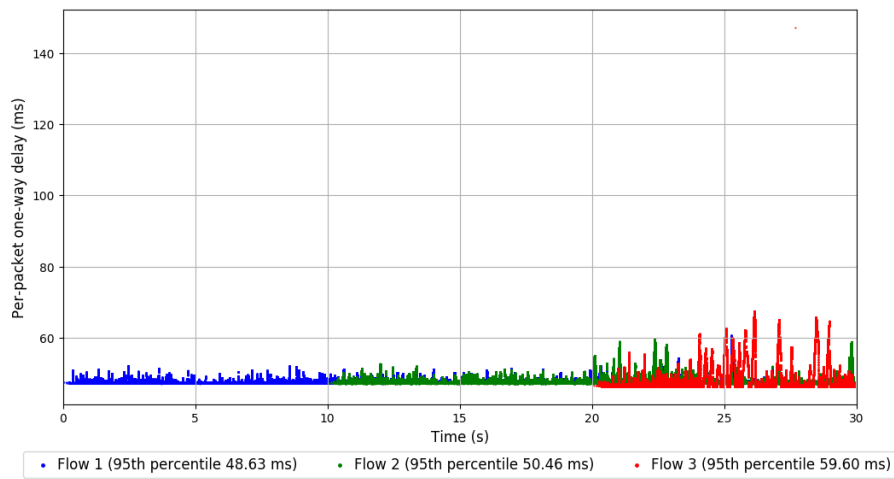
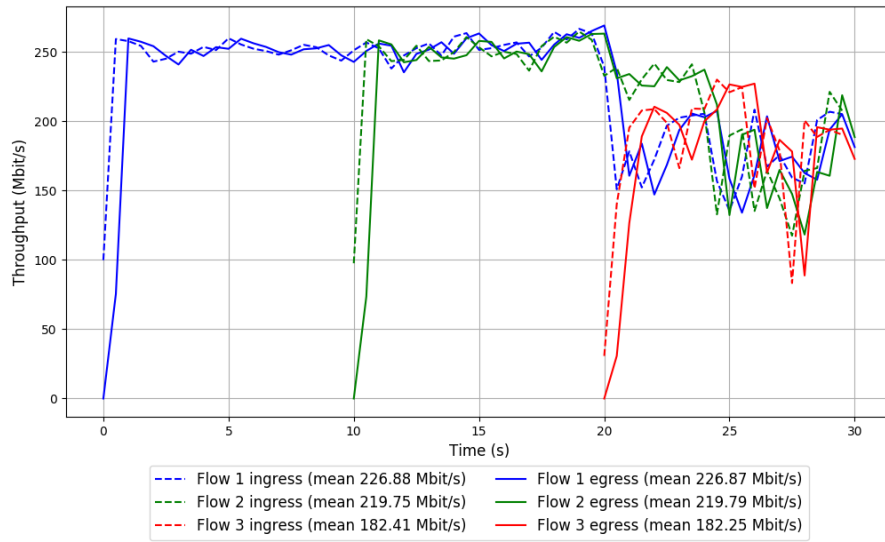
-- Flow 2:

Average throughput: 219.79 Mbit/s  
95th percentile per-packet one-way delay: 50.461 ms  
Loss rate: 0.46%

-- Flow 3:

Average throughput: 182.25 Mbit/s  
95th percentile per-packet one-way delay: 59.602 ms  
Loss rate: 1.04%

Run 2: Report of TaoVA-100x — Data Link



Run 3: Statistics of TaoVA-100x

Start at: 2019-09-19 05:44:28  
End at: 2019-09-19 05:44:58  
Local clock offset: -0.211 ms  
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2019-09-19 09:36:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 438.66 Mbit/s  
95th percentile per-packet one-way delay: 48.846 ms  
Loss rate: 0.41%

-- Flow 1:

Average throughput: 241.61 Mbit/s  
95th percentile per-packet one-way delay: 48.782 ms  
Loss rate: 0.27%

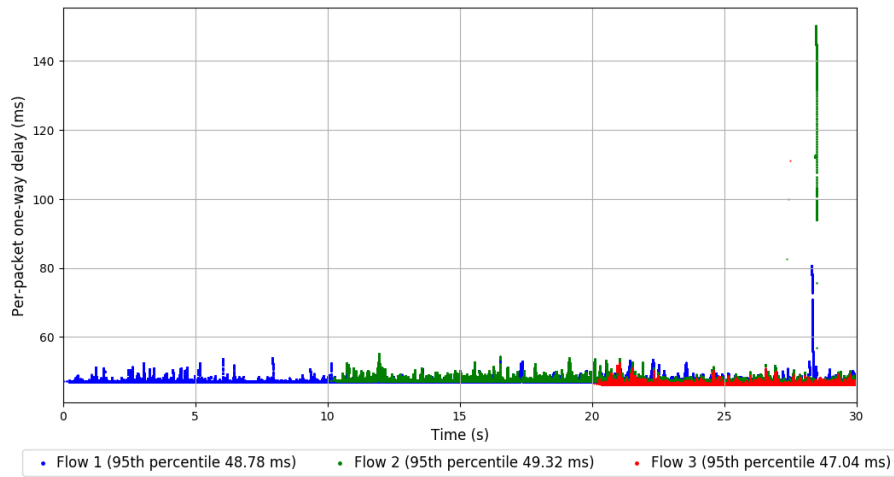
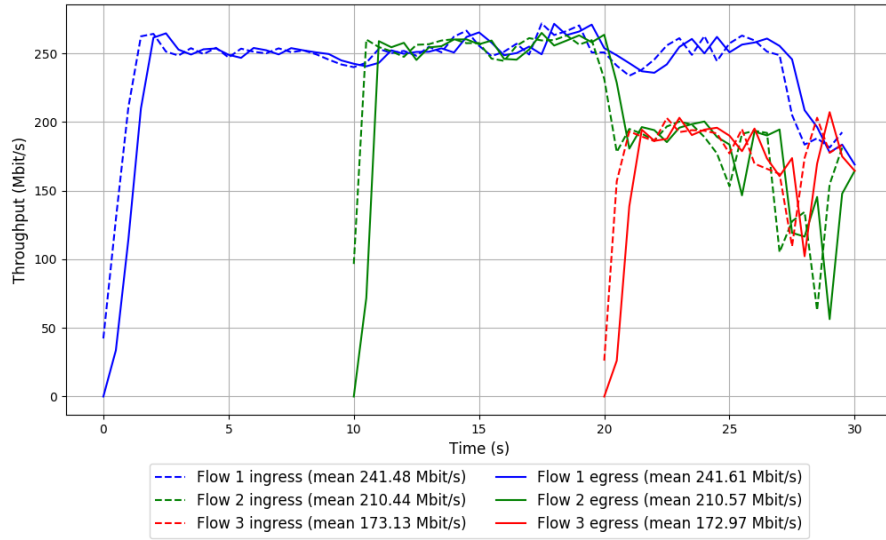
-- Flow 2:

Average throughput: 210.57 Mbit/s  
95th percentile per-packet one-way delay: 49.324 ms  
Loss rate: 0.41%

-- Flow 3:

Average throughput: 172.97 Mbit/s  
95th percentile per-packet one-way delay: 47.040 ms  
Loss rate: 1.05%

Run 3: Report of TaoVA-100x — Data Link



Run 4: Statistics of TaoVA-100x

Start at: 2019-09-19 06:22:18

End at: 2019-09-19 06:22:48

Local clock offset: -0.192 ms

Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2019-09-19 09:36:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 375.24 Mbit/s

95th percentile per-packet one-way delay: 48.464 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 199.78 Mbit/s

95th percentile per-packet one-way delay: 48.408 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 179.47 Mbit/s

95th percentile per-packet one-way delay: 48.423 ms

Loss rate: 0.46%

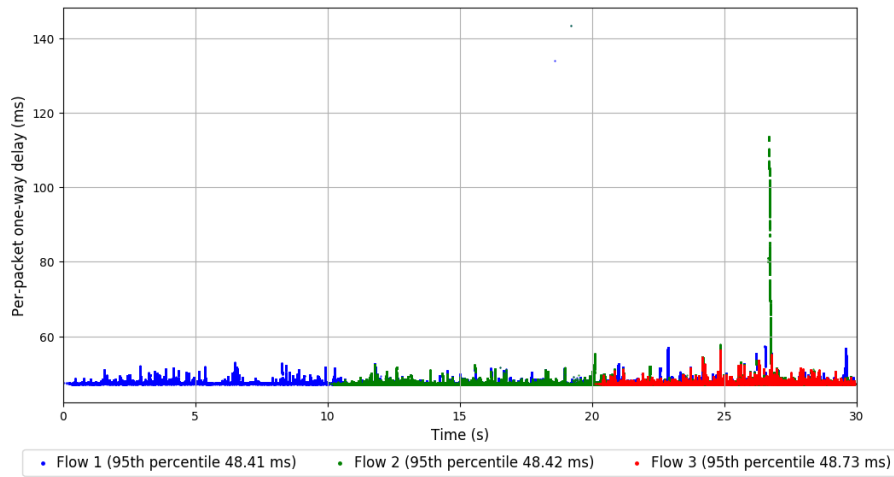
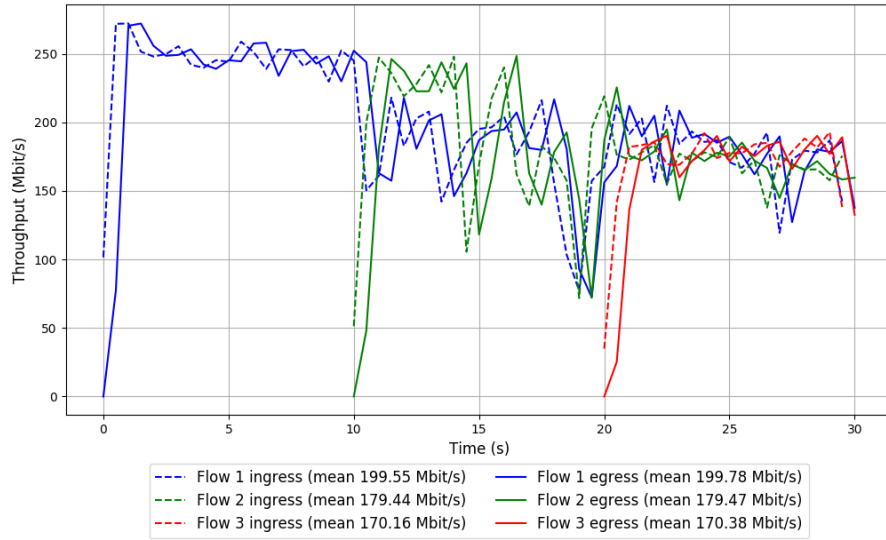
-- Flow 3:

Average throughput: 170.38 Mbit/s

95th percentile per-packet one-way delay: 48.731 ms

Loss rate: 0.84%

Run 4: Report of TaoVA-100x — Data Link



Run 5: Statistics of TaoVA-100x

Start at: 2019-09-19 06:59:45

End at: 2019-09-19 07:00:15

Local clock offset: -0.17 ms

Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2019-09-19 09:36:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 416.07 Mbit/s

95th percentile per-packet one-way delay: 49.803 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 215.61 Mbit/s

95th percentile per-packet one-way delay: 49.072 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 202.73 Mbit/s

95th percentile per-packet one-way delay: 49.425 ms

Loss rate: 0.49%

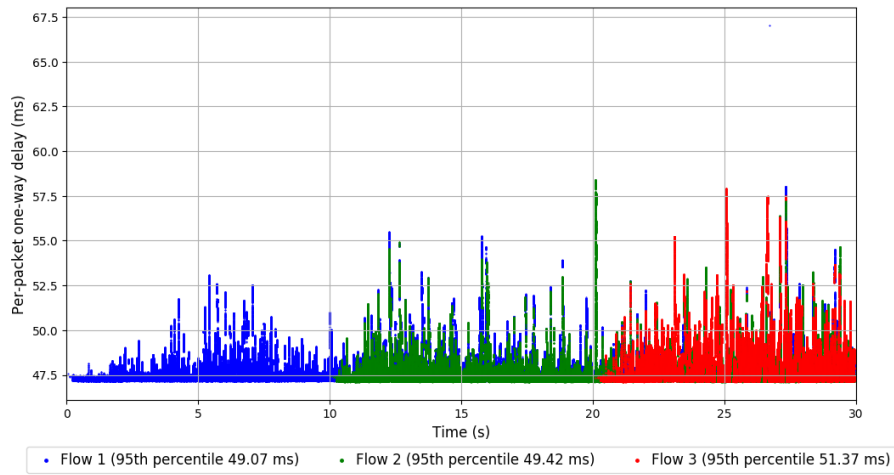
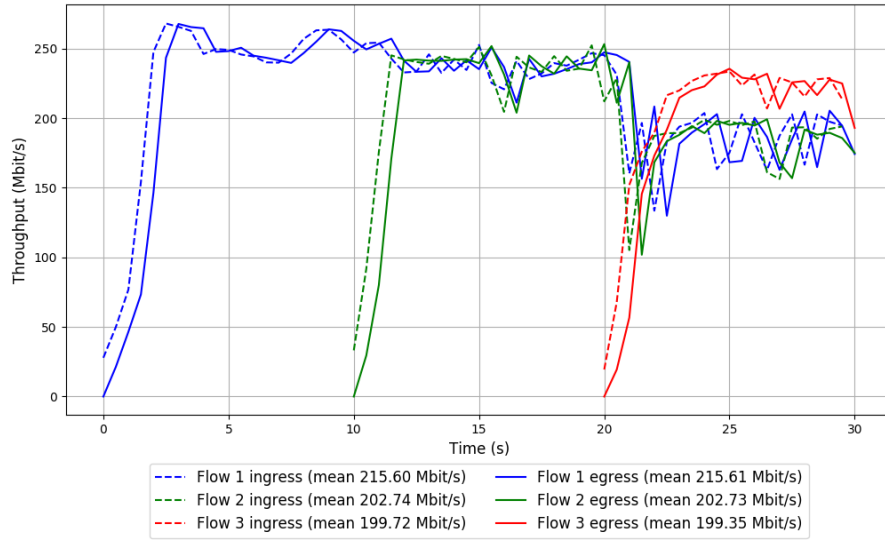
-- Flow 3:

Average throughput: 199.35 Mbit/s

95th percentile per-packet one-way delay: 51.368 ms

Loss rate: 1.15%

Run 5: Report of TaoVA-100x — Data Link





Run 1: Statistics of TCP Vegas

Start at: 2019-09-19 04:22:56  
End at: 2019-09-19 04:23:26  
Local clock offset: 0.216 ms  
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2019-09-19 09:36:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 487.73 Mbit/s  
95th percentile per-packet one-way delay: 48.349 ms  
Loss rate: 0.49%

-- Flow 1:

Average throughput: 232.36 Mbit/s  
95th percentile per-packet one-way delay: 48.020 ms  
Loss rate: 0.29%

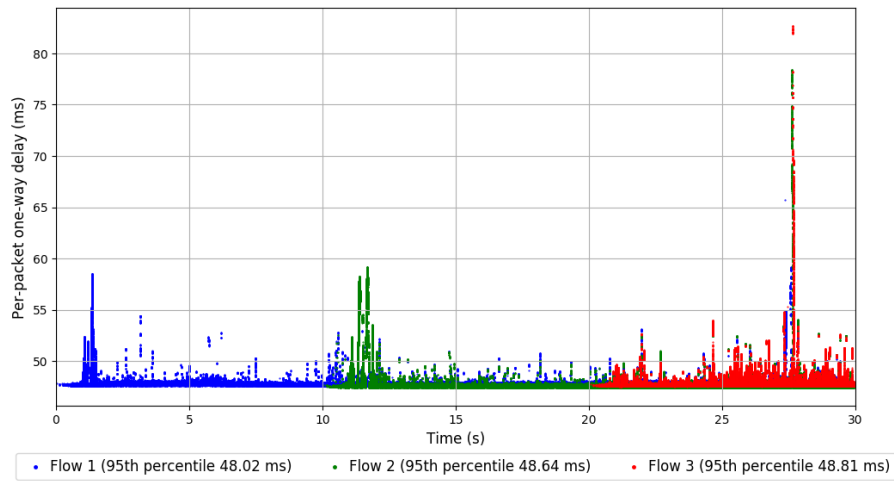
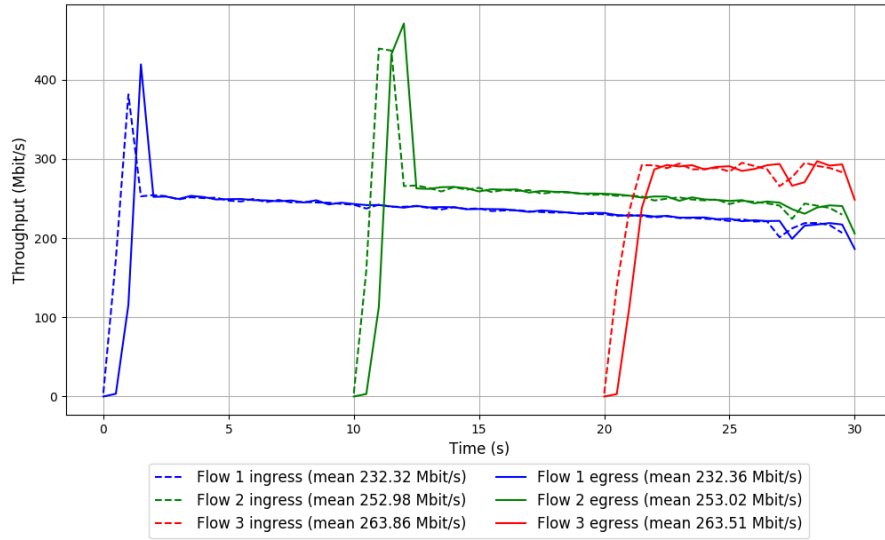
-- Flow 2:

Average throughput: 253.02 Mbit/s  
95th percentile per-packet one-way delay: 48.641 ms  
Loss rate: 0.45%

-- Flow 3:

Average throughput: 263.51 Mbit/s  
95th percentile per-packet one-way delay: 48.807 ms  
Loss rate: 1.08%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-09-19 05:00:15

End at: 2019-09-19 05:00:45

Local clock offset: -0.157 ms

Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2019-09-19 09:39:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 599.65 Mbit/s

95th percentile per-packet one-way delay: 48.189 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 356.89 Mbit/s

95th percentile per-packet one-way delay: 48.138 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 239.23 Mbit/s

95th percentile per-packet one-way delay: 47.783 ms

Loss rate: 0.46%

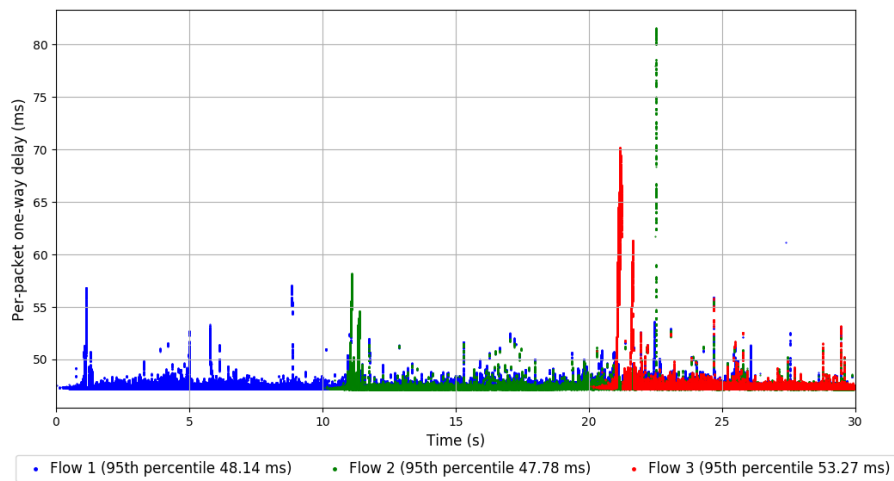
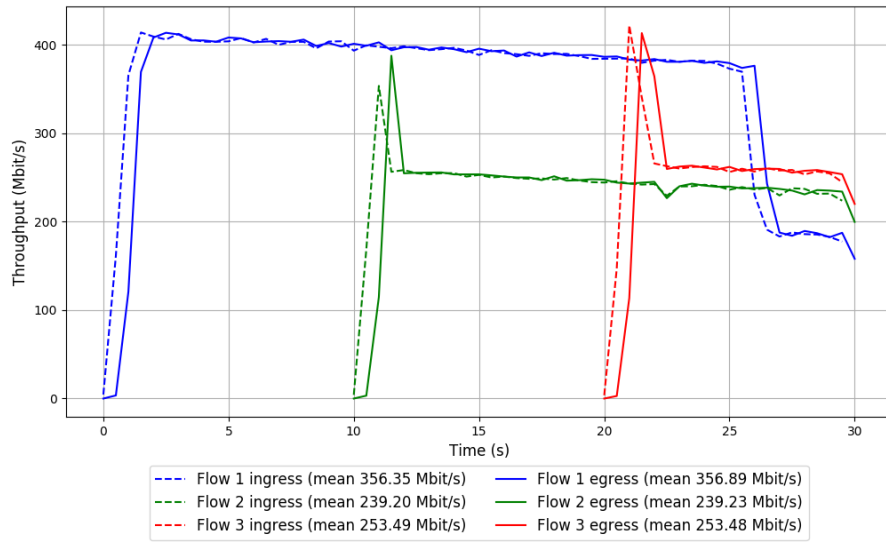
-- Flow 3:

Average throughput: 253.48 Mbit/s

95th percentile per-packet one-way delay: 53.270 ms

Loss rate: 0.96%

## Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-09-19 05:38:11

End at: 2019-09-19 05:38:41

Local clock offset: -0.546 ms

Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2019-09-19 09:39:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 541.50 Mbit/s

95th percentile per-packet one-way delay: 47.877 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 264.64 Mbit/s

95th percentile per-packet one-way delay: 47.895 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 283.82 Mbit/s

95th percentile per-packet one-way delay: 47.322 ms

Loss rate: 0.48%

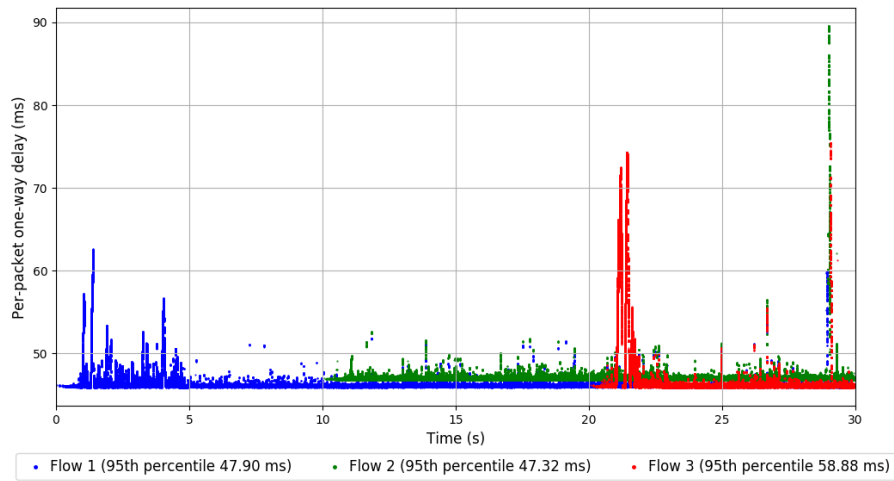
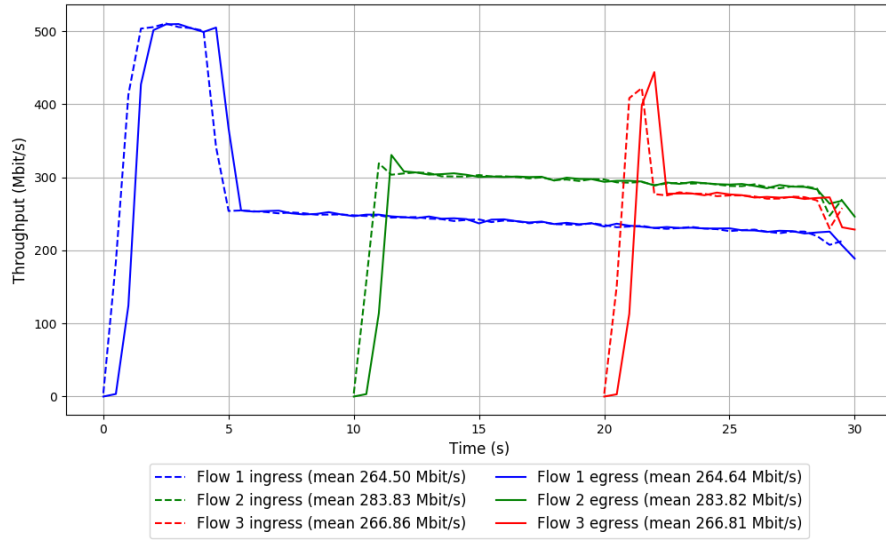
-- Flow 3:

Average throughput: 266.81 Mbit/s

95th percentile per-packet one-way delay: 58.880 ms

Loss rate: 0.96%

### Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-09-19 06:15:55

End at: 2019-09-19 06:16:25

Local clock offset: -0.203 ms

Remote clock offset: 0.038 ms

# Below is generated by plot.py at 2019-09-19 09:45:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 623.84 Mbit/s

95th percentile per-packet one-way delay: 55.310 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 244.86 Mbit/s

95th percentile per-packet one-way delay: 47.797 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 425.63 Mbit/s

95th percentile per-packet one-way delay: 55.810 ms

Loss rate: 0.51%

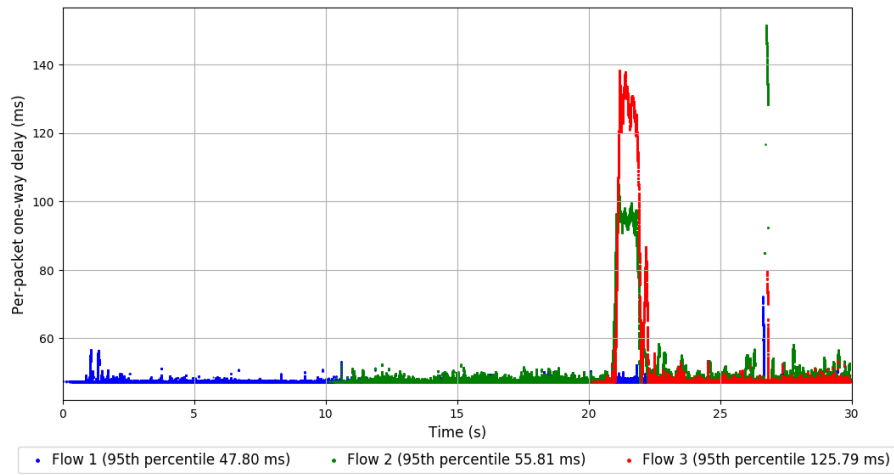
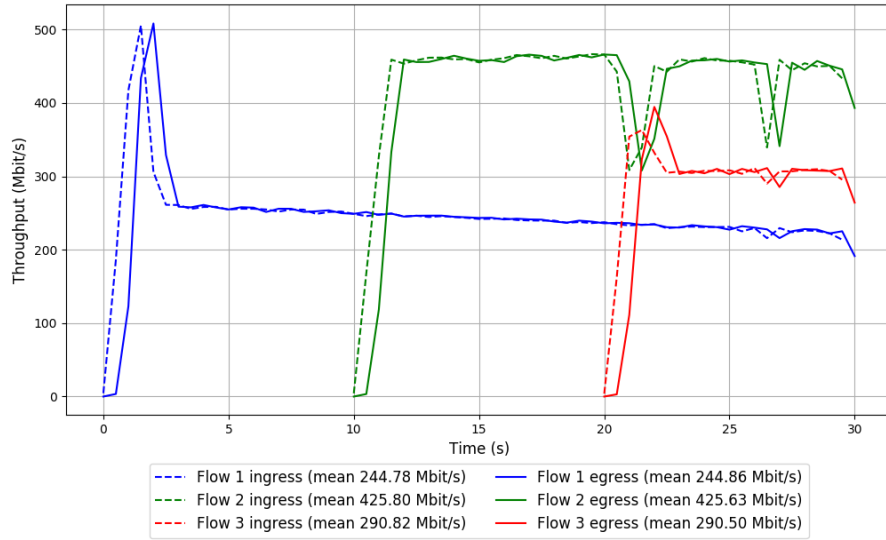
-- Flow 3:

Average throughput: 290.50 Mbit/s

95th percentile per-packet one-way delay: 125.794 ms

Loss rate: 1.01%

### Run 4: Report of TCP Vegas — Data Link





Run 5: Statistics of TCP Vegas

Start at: 2019-09-19 06:53:33

End at: 2019-09-19 06:54:03

Local clock offset: -0.185 ms

Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2019-09-19 09:45:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 519.98 Mbit/s

95th percentile per-packet one-way delay: 47.476 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 241.91 Mbit/s

95th percentile per-packet one-way delay: 47.136 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 276.57 Mbit/s

95th percentile per-packet one-way delay: 47.506 ms

Loss rate: 0.47%

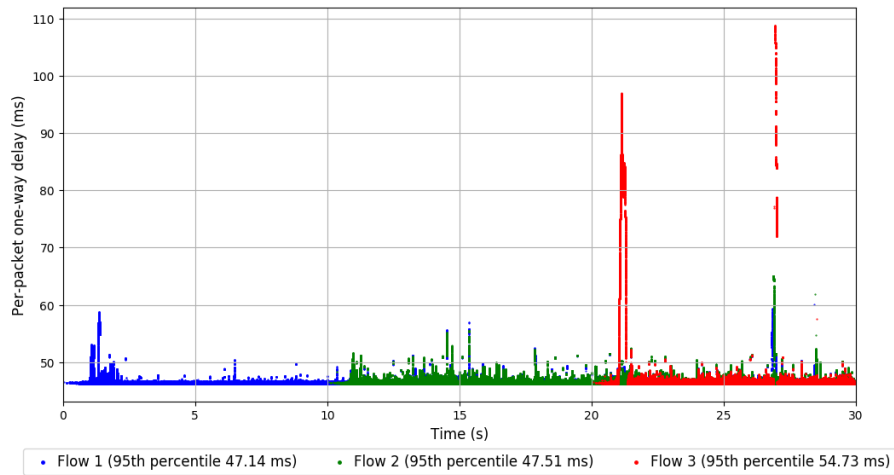
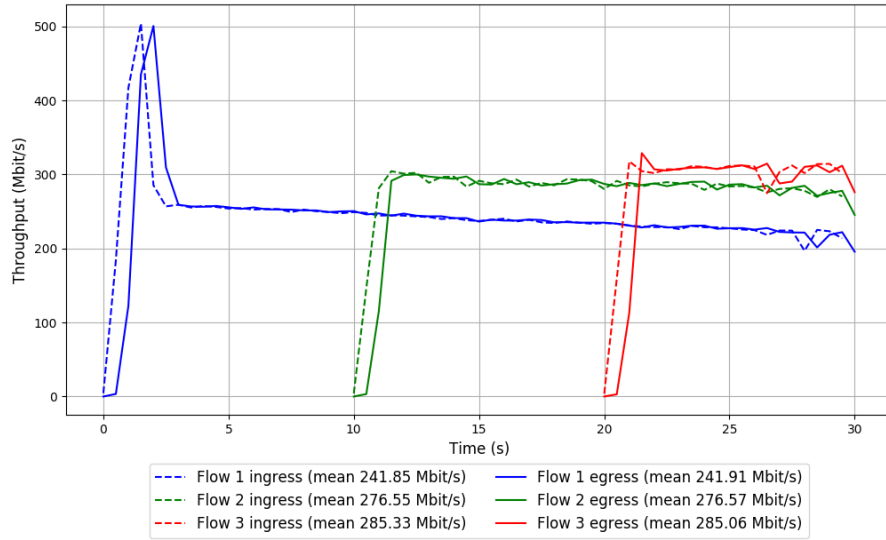
-- Flow 3:

Average throughput: 285.06 Mbit/s

95th percentile per-packet one-way delay: 54.725 ms

Loss rate: 1.03%

### Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-09-19 04:02:45  
End at: 2019-09-19 04:03:15  
Local clock offset: -0.212 ms  
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2019-09-19 09:45:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 158.78 Mbit/s  
95th percentile per-packet one-way delay: 82.190 ms  
Loss rate: 1.26%

-- Flow 1:

Average throughput: 50.96 Mbit/s  
95th percentile per-packet one-way delay: 82.758 ms  
Loss rate: 0.00%

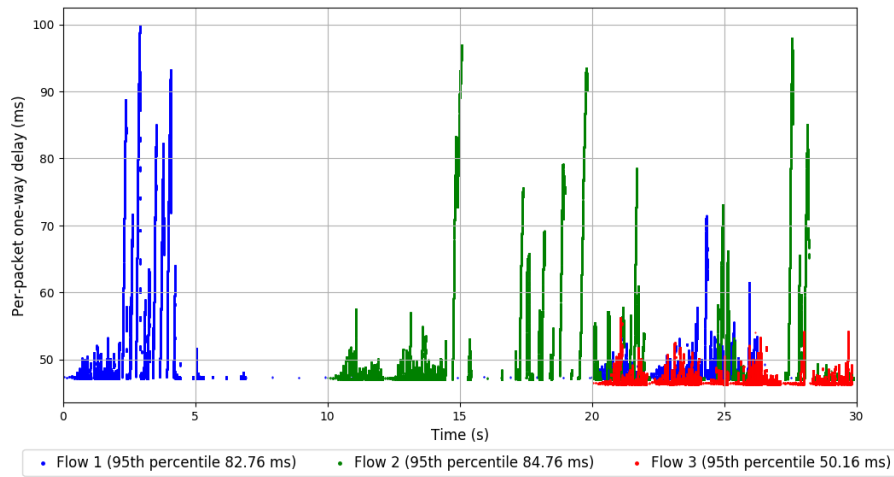
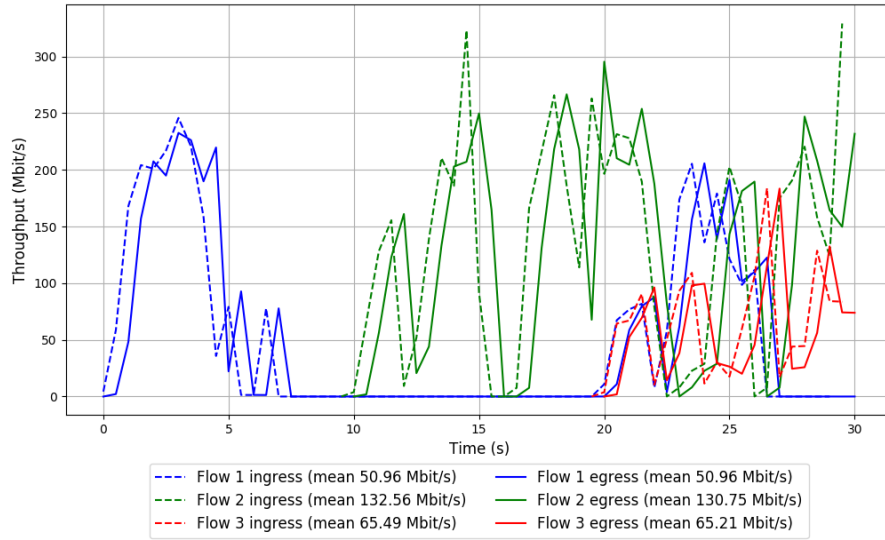
-- Flow 2:

Average throughput: 130.75 Mbit/s  
95th percentile per-packet one-way delay: 84.759 ms  
Loss rate: 1.84%

-- Flow 3:

Average throughput: 65.21 Mbit/s  
95th percentile per-packet one-way delay: 50.157 ms  
Loss rate: 1.77%

### Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-09-19 04:40:09  
End at: 2019-09-19 04:40:39  
Local clock offset: -0.166 ms  
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-09-19 09:45:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.17 Mbit/s  
95th percentile per-packet one-way delay: 62.847 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 16.91 Mbit/s  
95th percentile per-packet one-way delay: 64.690 ms  
Loss rate: 0.00%

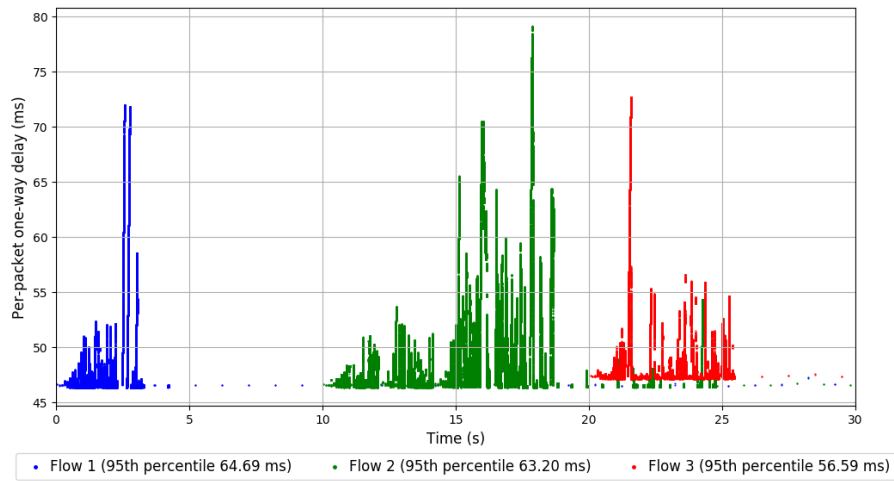
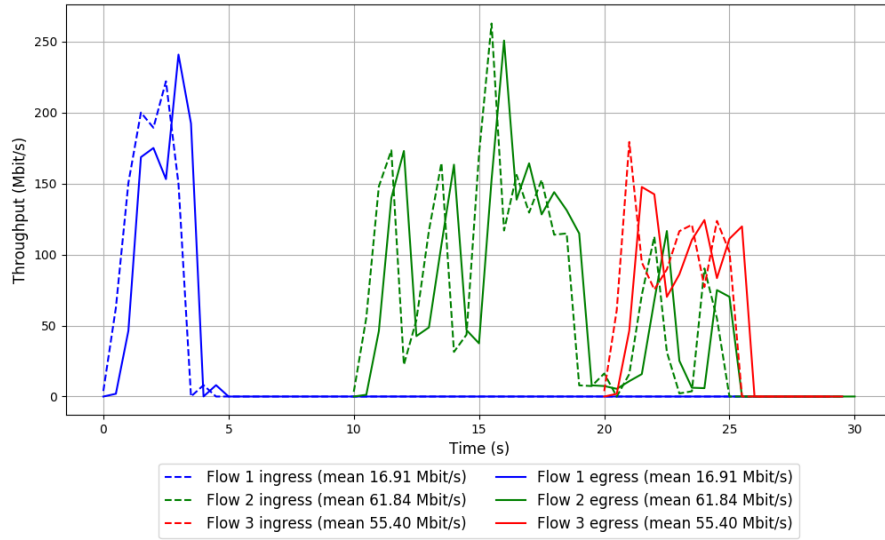
-- Flow 2:

Average throughput: 61.84 Mbit/s  
95th percentile per-packet one-way delay: 63.199 ms  
Loss rate: 0.00%

-- Flow 3:

Average throughput: 55.40 Mbit/s  
95th percentile per-packet one-way delay: 56.592 ms  
Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-09-19 05:17:39

End at: 2019-09-19 05:18:09

Local clock offset: -0.164 ms

Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2019-09-19 09:45:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 181.54 Mbit/s

95th percentile per-packet one-way delay: 67.171 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 91.27 Mbit/s

95th percentile per-packet one-way delay: 53.980 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 100.65 Mbit/s

95th percentile per-packet one-way delay: 79.121 ms

Loss rate: 0.00%

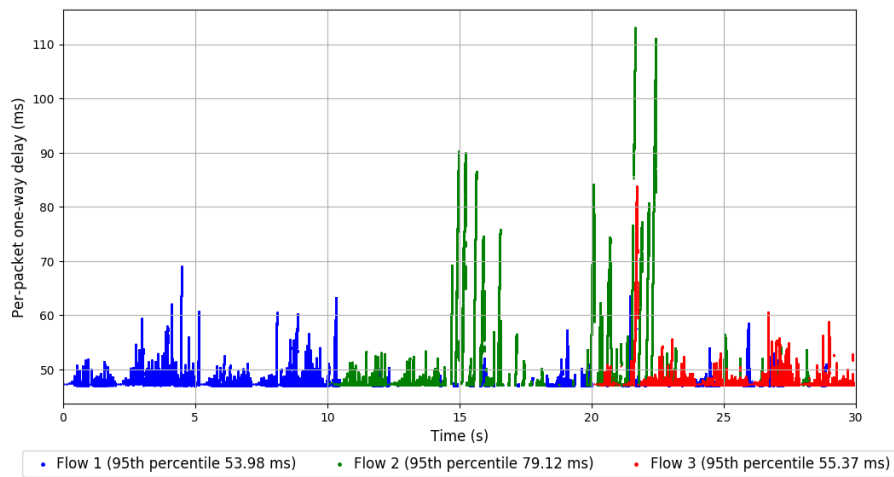
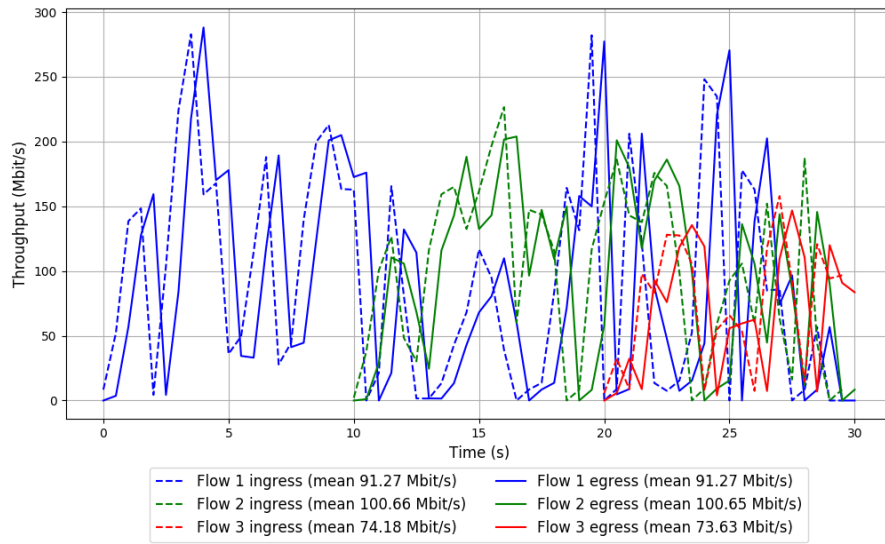
-- Flow 3:

Average throughput: 73.63 Mbit/s

95th percentile per-packet one-way delay: 55.373 ms

Loss rate: 1.70%

### Run 3: Report of Verus — Data Link





Run 4: Statistics of Verus

Start at: 2019-09-19 05:55:35

End at: 2019-09-19 05:56:05

Local clock offset: -0.208 ms

Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2019-09-19 09:45:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 147.25 Mbit/s

95th percentile per-packet one-way delay: 75.317 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 29.46 Mbit/s

95th percentile per-packet one-way delay: 54.332 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 144.37 Mbit/s

95th percentile per-packet one-way delay: 82.174 ms

Loss rate: 1.52%

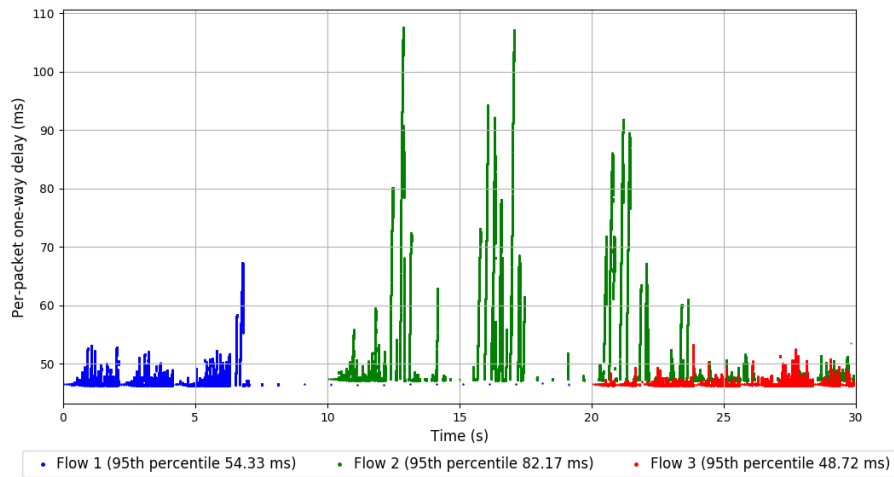
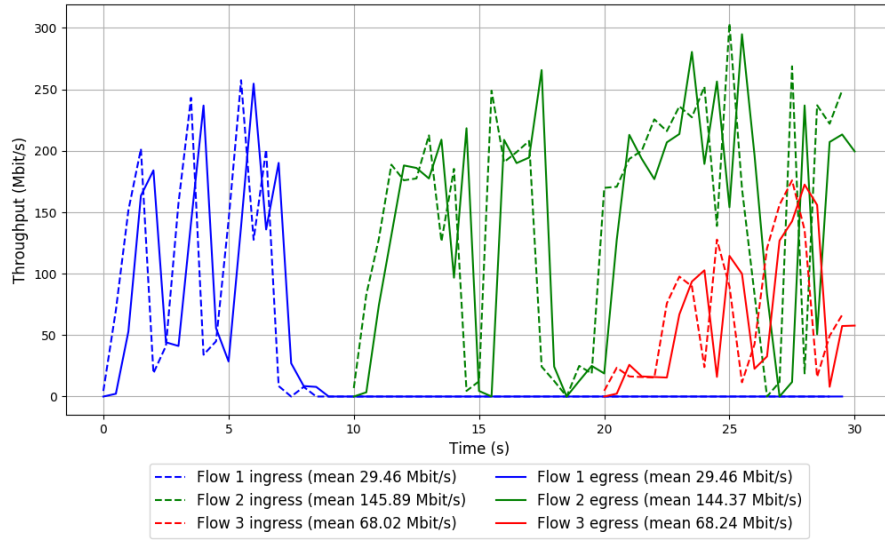
-- Flow 3:

Average throughput: 68.24 Mbit/s

95th percentile per-packet one-way delay: 48.718 ms

Loss rate: 0.65%

### Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-09-19 06:33:14

End at: 2019-09-19 06:33:44

Local clock offset: -0.19 ms

Remote clock offset: 0.056 ms

# Below is generated by plot.py at 2019-09-19 09:45:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 171.95 Mbit/s

95th percentile per-packet one-way delay: 53.947 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 92.67 Mbit/s

95th percentile per-packet one-way delay: 55.517 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 81.96 Mbit/s

95th percentile per-packet one-way delay: 50.841 ms

Loss rate: 0.58%

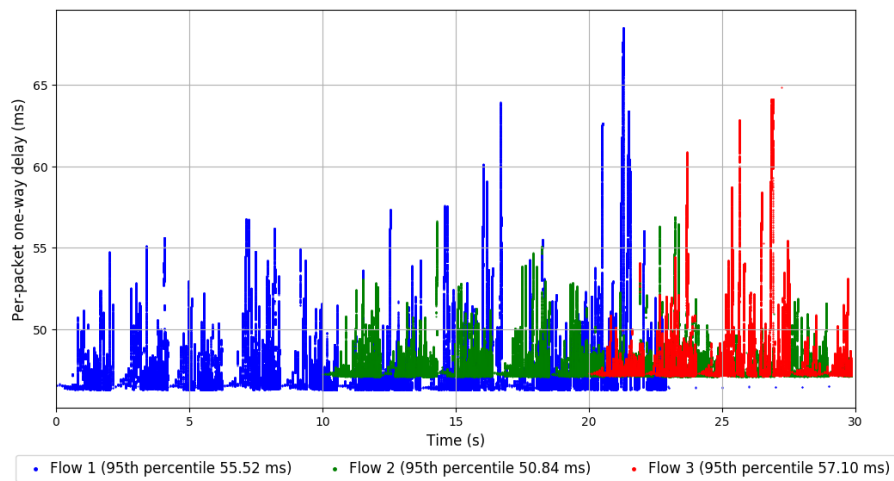
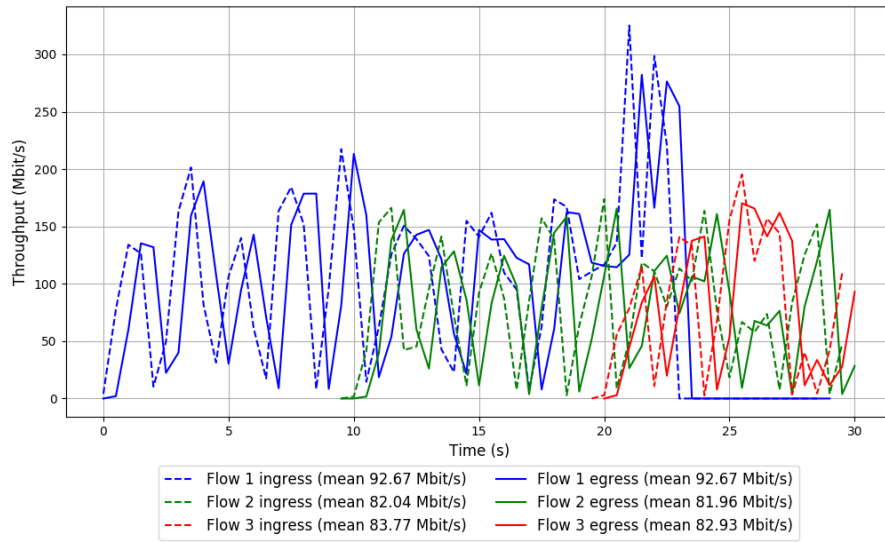
-- Flow 3:

Average throughput: 82.93 Mbit/s

95th percentile per-packet one-way delay: 57.102 ms

Loss rate: 1.93%

### Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-09-19 04:25:50

End at: 2019-09-19 04:26:20

Local clock offset: -0.179 ms

Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2019-09-19 09:46:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 355.89 Mbit/s

95th percentile per-packet one-way delay: 47.590 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 202.51 Mbit/s

95th percentile per-packet one-way delay: 47.536 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 183.51 Mbit/s

95th percentile per-packet one-way delay: 47.757 ms

Loss rate: 0.32%

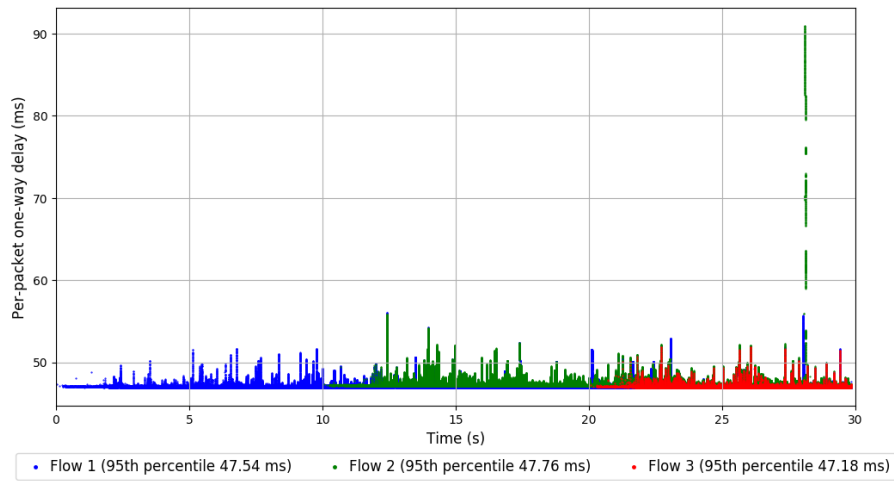
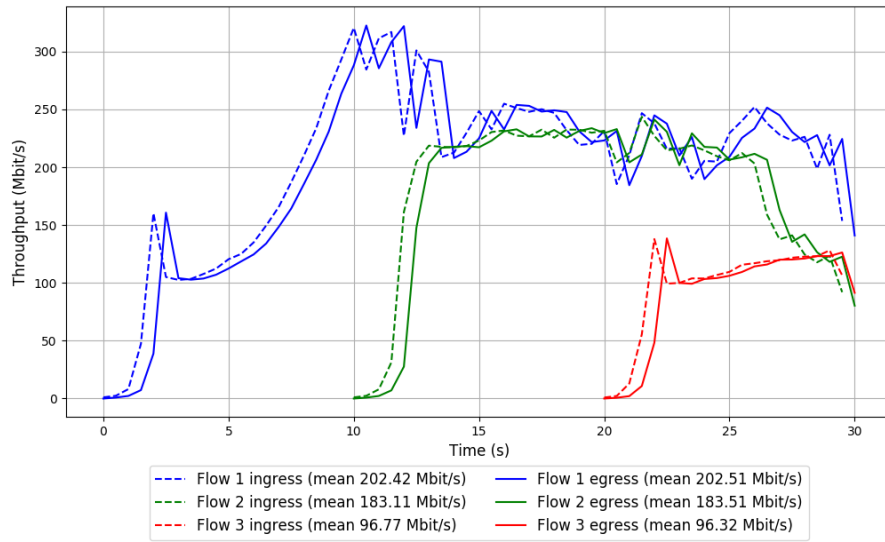
-- Flow 3:

Average throughput: 96.32 Mbit/s

95th percentile per-packet one-way delay: 47.182 ms

Loss rate: 1.47%

# Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-09-19 05:03:14

End at: 2019-09-19 05:03:44

Local clock offset: 0.233 ms

Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2019-09-19 09:46:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 331.00 Mbit/s

95th percentile per-packet one-way delay: 48.385 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 185.77 Mbit/s

95th percentile per-packet one-way delay: 48.175 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 181.05 Mbit/s

95th percentile per-packet one-way delay: 48.877 ms

Loss rate: 0.47%

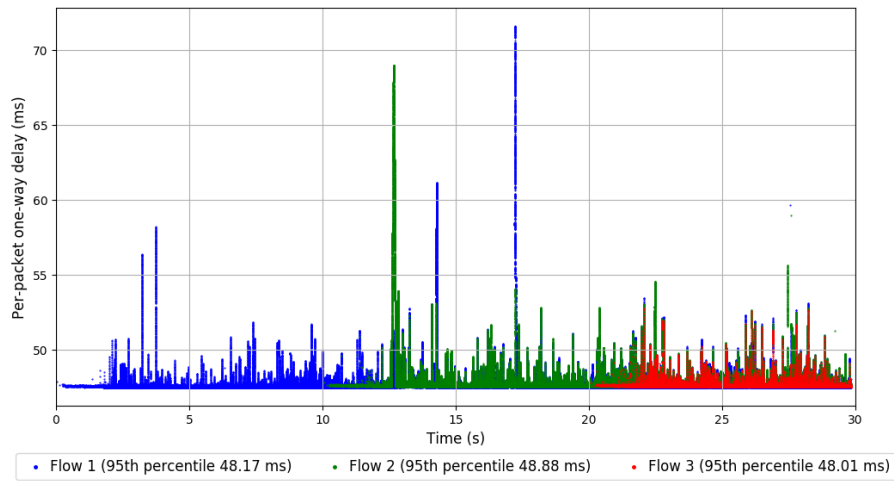
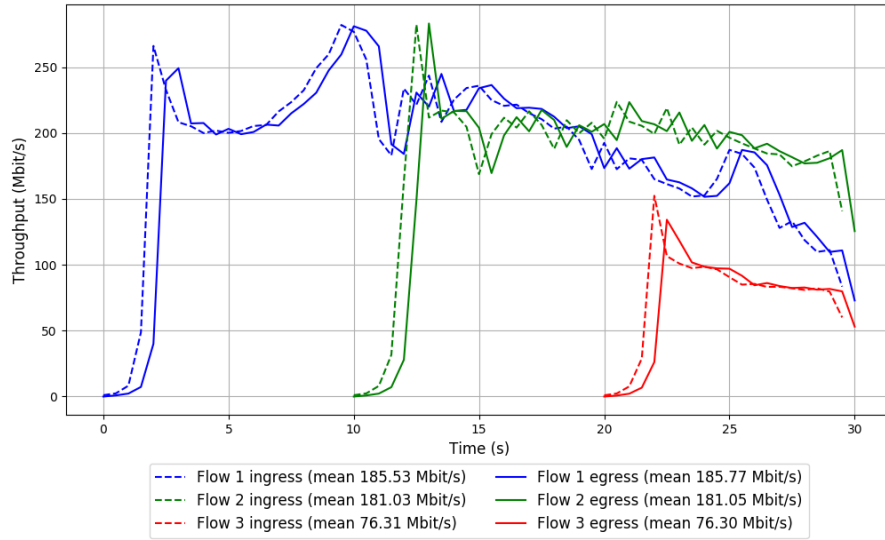
-- Flow 3:

Average throughput: 76.30 Mbit/s

95th percentile per-packet one-way delay: 48.010 ms

Loss rate: 0.99%

Run 2: Report of PCC-Vivace — Data Link



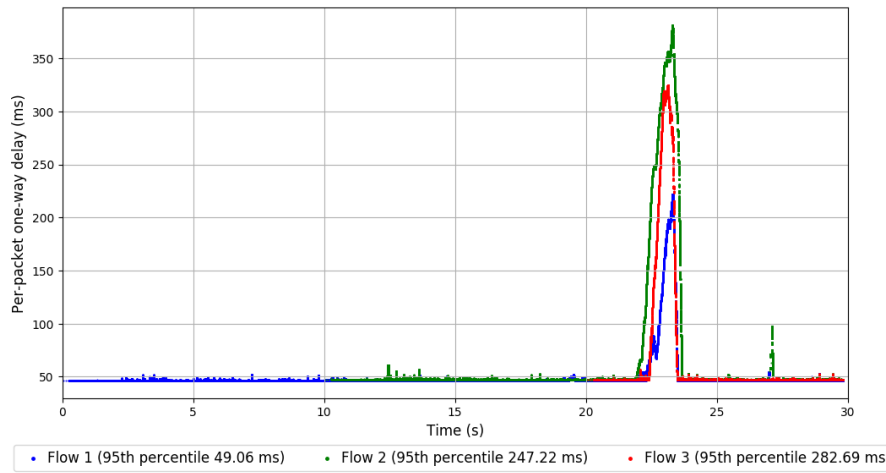
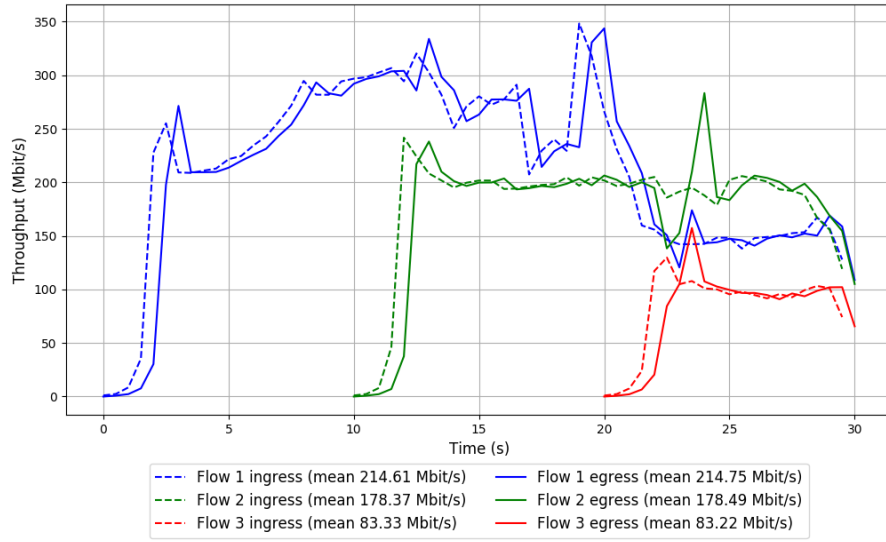


Run 3: Statistics of PCC-Vivace

Start at: 2019-09-19 05:41:07  
End at: 2019-09-19 05:41:37  
Local clock offset: -0.193 ms  
Remote clock offset: -0.016 ms

```
# Below is generated by plot.py at 2019-09-19 09:46:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 360.50 Mbit/s
95th percentile per-packet one-way delay: 81.298 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 214.75 Mbit/s
95th percentile per-packet one-way delay: 49.061 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 178.49 Mbit/s
95th percentile per-packet one-way delay: 247.224 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 83.22 Mbit/s
95th percentile per-packet one-way delay: 282.692 ms
Loss rate: 1.10%
```

### Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-09-19 06:18:55

End at: 2019-09-19 06:19:25

Local clock offset: -0.182 ms

Remote clock offset: 0.075 ms

# Below is generated by plot.py at 2019-09-19 09:47:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 389.09 Mbit/s

95th percentile per-packet one-way delay: 47.706 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 208.87 Mbit/s

95th percentile per-packet one-way delay: 47.563 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 199.88 Mbit/s

95th percentile per-packet one-way delay: 47.835 ms

Loss rate: 0.48%

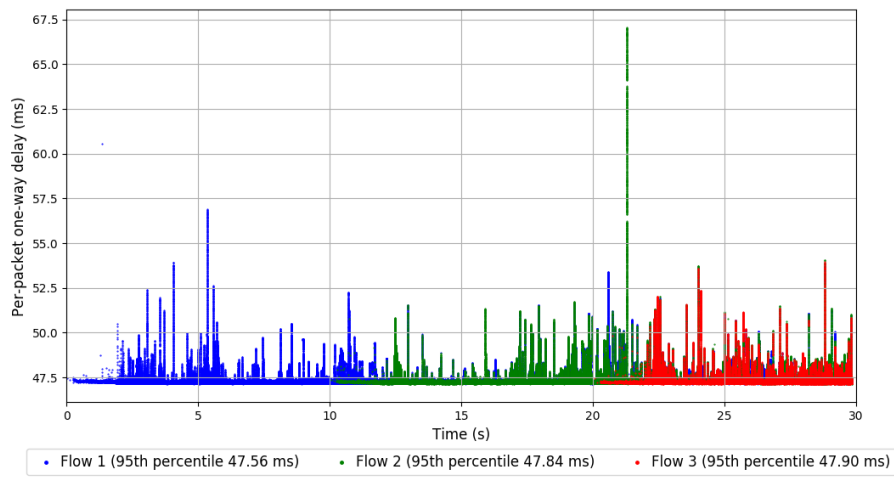
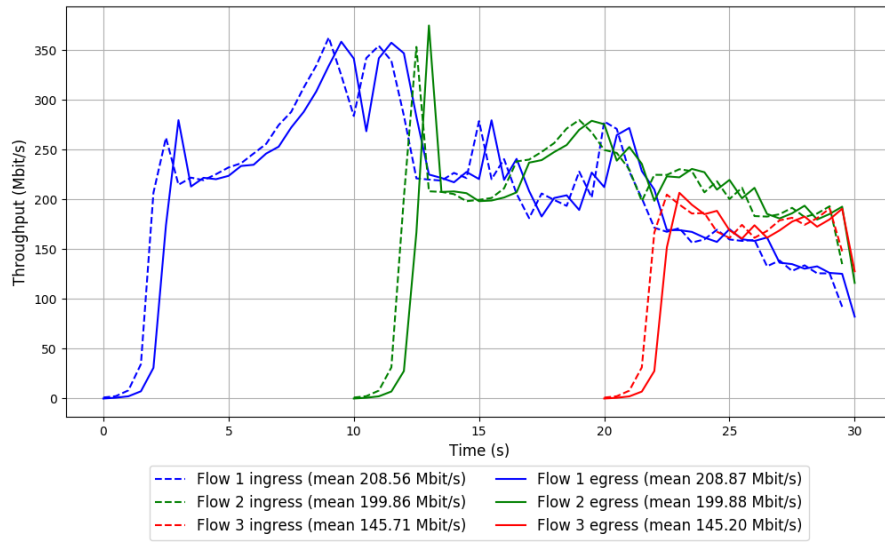
-- Flow 3:

Average throughput: 145.20 Mbit/s

95th percentile per-packet one-way delay: 47.903 ms

Loss rate: 1.37%

### Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-09-19 06:56:29

End at: 2019-09-19 06:56:59

Local clock offset: -0.151 ms

Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2019-09-19 09:47:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 330.84 Mbit/s

95th percentile per-packet one-way delay: 47.387 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 215.78 Mbit/s

95th percentile per-packet one-way delay: 46.955 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 129.46 Mbit/s

95th percentile per-packet one-way delay: 47.826 ms

Loss rate: 0.76%

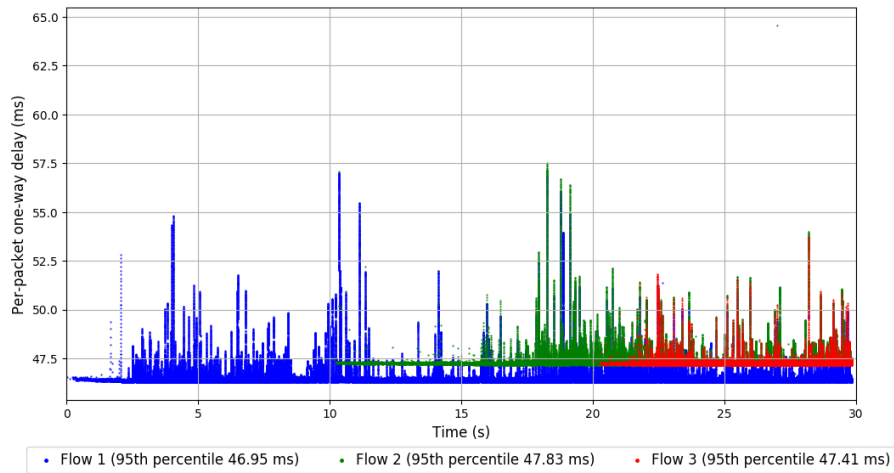
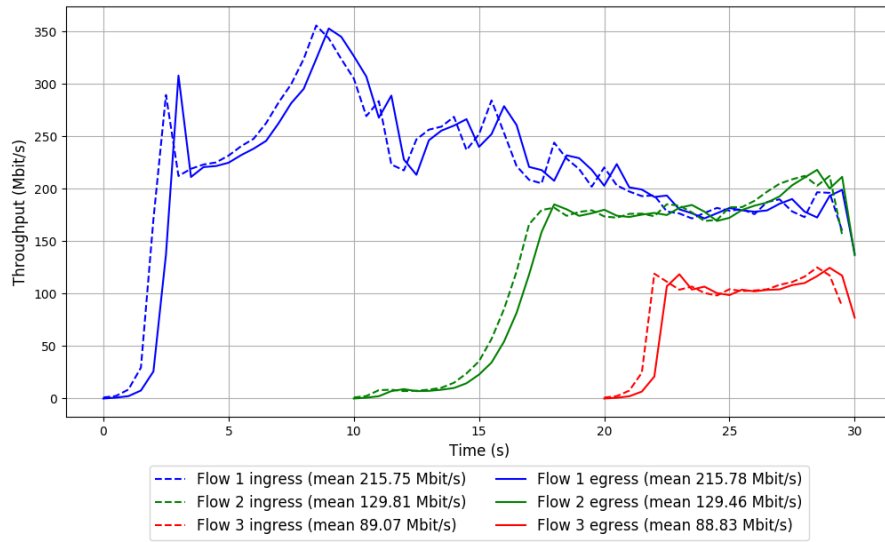
-- Flow 3:

Average throughput: 88.83 Mbit/s

95th percentile per-packet one-way delay: 47.411 ms

Loss rate: 1.23%

### Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-09-19 04:18:22  
End at: 2019-09-19 04:18:52  
Local clock offset: -0.191 ms  
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2019-09-19 09:47:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 47.402 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 47.405 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 47.407 ms

Loss rate: 0.00%

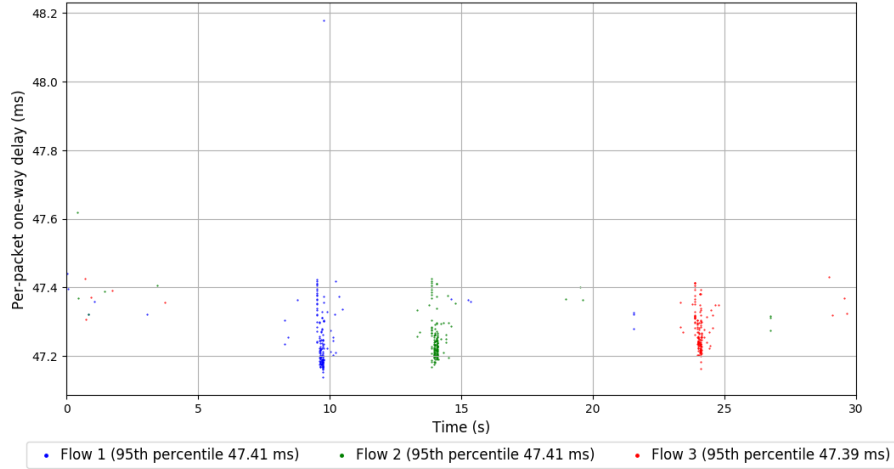
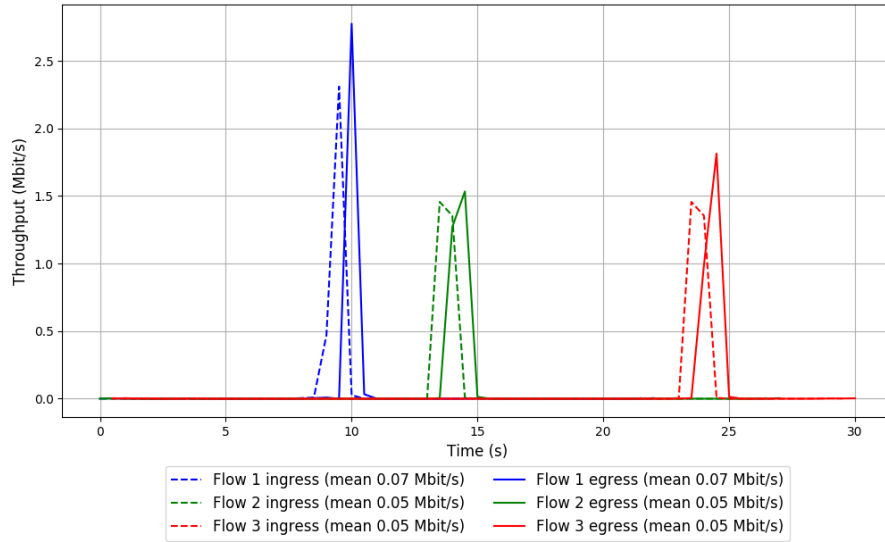
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 47.394 ms

Loss rate: 0.00%

# Run 1: Report of WebRTC media — Data Link





Run 2: Statistics of WebRTC media

Start at: 2019-09-19 04:55:39

End at: 2019-09-19 04:56:09

Local clock offset: -0.149 ms

Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2019-09-19 09:47:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 47.640 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 47.464 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 47.992 ms

Loss rate: 0.00%

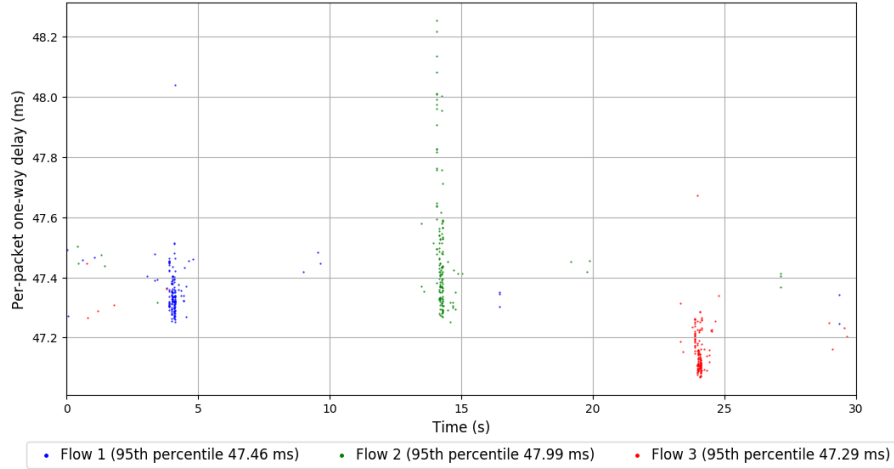
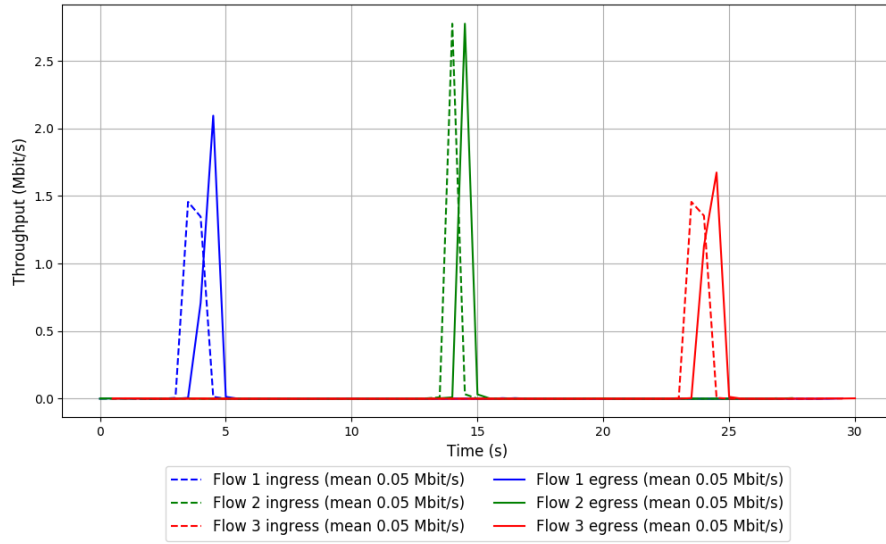
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 47.286 ms

Loss rate: 0.00%

## Run 2: Report of WebRTC media — Data Link

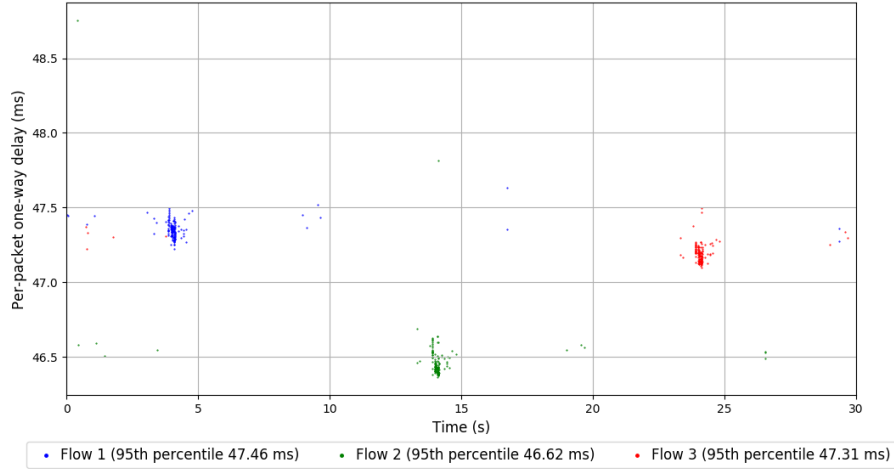
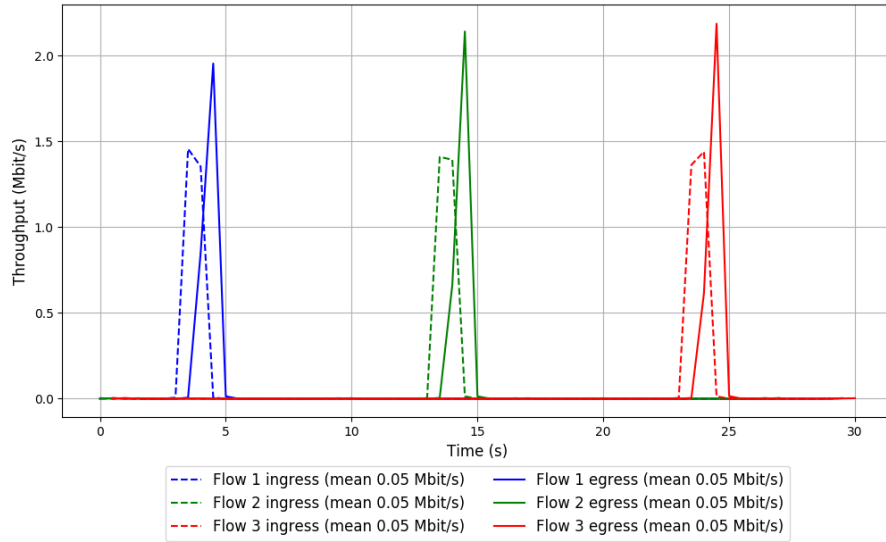


Run 3: Statistics of WebRTC media

Start at: 2019-09-19 05:33:28  
End at: 2019-09-19 05:33:58  
Local clock offset: -0.178 ms  
Remote clock offset: -0.069 ms

```
# Below is generated by plot.py at 2019-09-19 09:47:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 47.431 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.460 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 46.615 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.306 ms
Loss rate: 0.00%
```

### Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-09-19 06:11:11  
End at: 2019-09-19 06:11:41  
Local clock offset: -0.181 ms  
Remote clock offset: 0.08 ms

# Below is generated by plot.py at 2019-09-19 09:47:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 47.407 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 47.407 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 47.414 ms

Loss rate: 0.00%

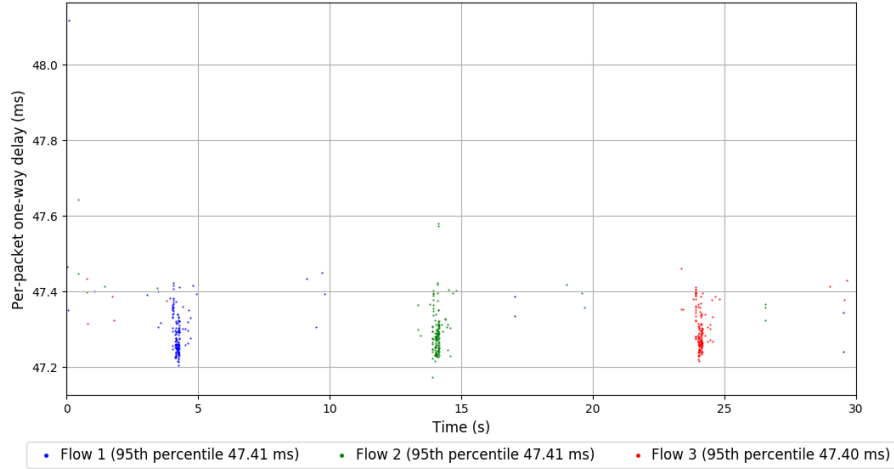
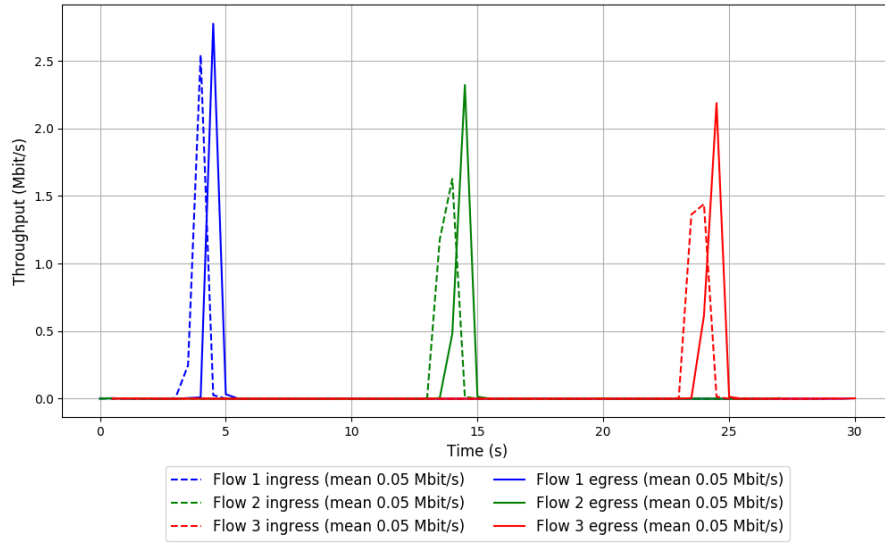
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 47.401 ms

Loss rate: 0.00%

### Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-09-19 06:48:56

End at: 2019-09-19 06:49:26

Local clock offset: -0.176 ms

Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2019-09-19 09:47:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 47.416 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 47.416 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 47.442 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 47.219 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

